

# Required Minimum Distribution (RMD) Primer

**Prepared for:**  
Valued Client

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# Table of Contents

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Disclosure Notice.....	1
The Basics of Required Minimum Distributions.....	2
Required Minimum Distributions.....	4
Inherited Retirement Accounts - Required Distributions Under the SECURE Acts.....	7
Qualified Charitable Distribution.....	12
Joint and Last Survivor Table (2022).....	17
Single Life Table (2022).....	73
Uniform Lifetime Table (2022).....	78

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# The Basics of Required Minimum Distributions

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## Ensuring that Uncle Sam Gets His Due

The benefits of retirement accounts such as a traditional IRA or a 401(k) are two-fold:

- Tax-deductible contributions allow individuals to reduce the size of their current tax burden while they are saving for retirement – which effectively lets them save more.
- Tax-deferred growth inside these accounts allows funds to accumulate without concern for an annual tax bill on that growth.

### When It's Time to Pay Taxes

Eventually, however, the government must be paid. The tax benefits of these accounts are provided for one purpose: to help individuals save for retirement. Once an individual reaches retirement age, these same rules now dictate that the funds must be used for retirement purposes and the taxes that have been deferred must be paid.

What does this mean? It means that federal income tax law requires that a minimum amount of money, known as a “required minimum distribution,” or RMD, be withdrawn from these accounts each year, starting at a specific age, known as the Required Beginning Date, or RBD.<sup>1</sup> The amount to be distributed is determined by a special calculation that, in essence, takes the total amount in the account and divides it by the number of years the individual is expected to live. When the required minimum distribution amount is received, it is included as taxable income to the individual and Uncle Sam will, finally, get paid. If an account owner does not make distributions that are large enough, or if distributions are not made at all, a penalty tax of 25%<sup>2</sup> of the amount that should have been distributed is generally due.<sup>3</sup> If the taxpayer promptly corrects the error, the penalty tax is reduced to 10%.

But, one bit of good news is that the amount remaining in the account continues to grow tax deferred.

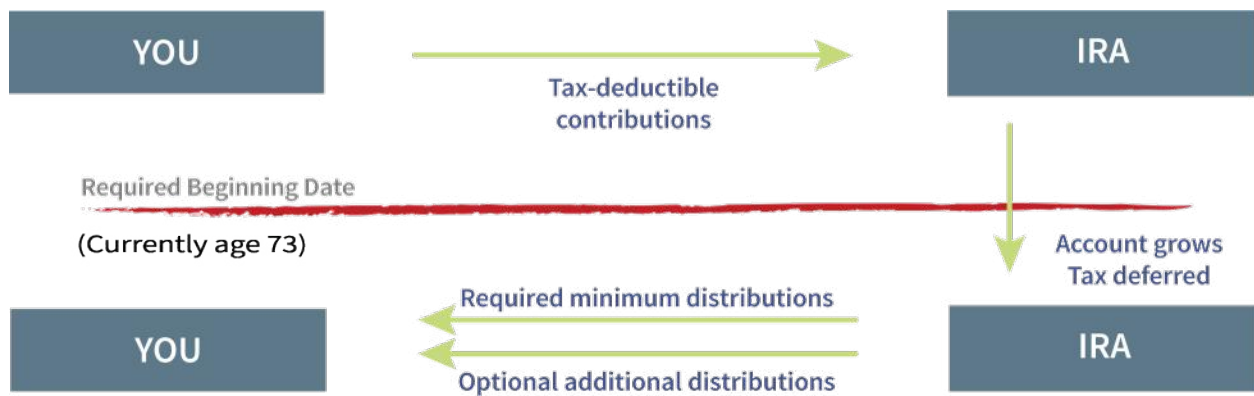
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<sup>1</sup> Under current regulations, the age to begin RMDs increases after 2022 to: (1) age 73 for those born from 1951 to 1959; and (2) to age 75 for those born after 1959. Previously, age 72 was the mandated age to begin RMDs. For non-owner employees, RMDs must begin by April 1 of the year after the *later* of (a) the year an employee reaches the RBD; or (b) the year the employee retires. For more-than 5% owners, RMDs *must begin* by April 1 of the year after the year they reach the RBD.

<sup>2</sup> Applicable to required minimum distributions after December 29, 2022. Under prior law, the penalty tax was 50% of the amount that should have been distributed.

<sup>3</sup> This is federal income tax law. State or local income tax law may differ.

# The Basics of Required Minimum Distributions



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# Required Minimum Distributions

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## Lifetime Distributions from IRAs and Qualified Plans

Both traditional IRAs<sup>1</sup> and qualified retirement plans enjoy significant federal tax benefits.<sup>2</sup> Contributions are generally tax deductible and growth inside an account is tax-deferred. Federal law requires that certain amounts be paid out, generally beginning with the year an account owner reaches his or her Required Beginning Date (RBD), currently age 73.<sup>3</sup> Funds become taxable when distributed.

- **Required minimum distributions (RMD):** These are the specified, minimum withdrawals that an account owner must make.
- **Required beginning date (RBD):** This is the date by which an account owner must begin to make his or her required minimum distributions.
- **Penalty tax:** If distributions are not large enough, a penalty tax of 25% of the amount that *should have been distributed* is generally due. The 25% penalty tax is reduced to 10% if the taxpayer promptly corrects the error.<sup>4</sup>

Item	Traditional IRAs	Qualified Plans
<b>Required beginning date</b>	By April 1 of the year following the year you attain age 73.	By April 1 of the year following the later of (a) the year you reach age 73, or (b) the year you retire. More than 5% owners must begin to receive distributions by April 1 of the year following the year they reach age 73.
<b>Initial distributions</b>	If a required first withdrawal for 2025 is made by April 1, 2026, the required distribution for 2026 must be made by December 31, 2026. In effect there are two taxable distributions made in 2026. Each year thereafter, a distribution is required on or before December 31.	

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<sup>1</sup> Including pre-tax contributions to both SIMPLE IRAs and SEP IRAs. Roth IRAs (funded with *after-tax* contributions) are subject to different rules.

<sup>2</sup> This discussion concerns federal law only. State or local law may vary.

<sup>3</sup> Under current regulations, the age to begin RMDs increases after 2022 to: (1) age 73 for those born from 1951 to 1959; and (2) to age 75 for those born after 1959. Previously, age 72 was the mandated age to begin RMDs. For non-owner employees, RMDs must begin by April 1 of the year after the *later* of (a) the year an employee reaches the RBD; or (b) the year the employee retires. For more-than 5% owners, RMDs *must begin* by April 1 of the year after the year they reach the RBD.

<sup>4</sup> Applies to RMDs made *after* December 29, 2022. Under prior law, the penalty tax was 50% of the RMD.

## Required Minimum Distributions

Item	Traditional IRAs	Qualified Plans
<b>More than one IRA or qualified retirement plan</b>	If an individual has more than one IRA, the required minimum distribution must be determined for each IRA. However, the total required distribution may be made from any one or a combination of the IRAs. The IRAs may not be aggregated with employer-sponsored qualified retirement plans.	Generally, each plan must make its own separate required minimum distribution.
<b>Other</b>	The minimum distribution rules do not apply to Roth accounts during the owner's lifetime.	Qualified plans include TSA 403(b), Keogh, 401(k), SIMPLE 401(k), and pension and profit sharing plans.

### Calculating Required Minimum Distributions<sup>1</sup>

The actual amount that must be distributed each year is determined using:

- The balance in the account as of the previous December 31, and;
- The age of the account owner (and spouse, if married) at the end of the year.

The required minimum distribution is calculated by dividing the account balance by a theoretical life span taken from life expectancy tables provided by the Internal Revenue Service (IRS). The life expectancy table used will vary depending on the age of the account owner and, if married, his or her spouse. An individual's marital status is determined as of January 1 of the calendar year. The following examples use life expectancies taken from the tables generally effective January 1, 2022. See Treasury Decision 9930, November 5, 2020.

**Single owner/spouse no more than 10 years younger:** An IRA owner, age 75, has \$100,000 in an IRA as of December 31 of the prior year. The required minimum distribution for the current year would be \$4,065.04, (\$100,000 divided by 24.6). The divisor of 24.6 is taken from the Uniform Lifetime Table for an individual age 75. The calculation is the same for a single individual or a married individual with a spouse no more than 10 years younger than the IRA owner.

<sup>1</sup> The rules reviewed here are those contained in the final regulations issued by the Treasury Department on April 16, 2002, in Treasury Decision 8987. Annuity contracts providing benefits under qualified plans, individual retirement plans, and IRC Sec. 403(b) contracts are subject to special rules. See Treasury Decision 9130.

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## Required Minimum Distributions

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**Spouse more than 10 Years Younger<sup>1</sup>:** If the participant's spouse is more than 10 years younger than the participant, the minimum distribution factor used in calculating the required minimum distribution is found in the Joint and Last Survivor Table.

An IRA owner, age 75, has \$100,000 in the IRA as of December 31 of the prior year. His wife is age 63. The required minimum distribution would be \$3,831.42, \$100,000 divided by 26.1, the Joint and Last Survivor Table factor for an owner age 75 and a spouse age 63.

### Seek Professional Guidance

Given the complex and frequently changing nature of tax law, individuals faced with the need to make required distributions from IRAs or qualified retirement plans should seek the guidance of qualified professionals.

These are hypothetical examples and are not representative of any specific investments. Your results may vary.

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<sup>1</sup> The spouse must be the sole beneficiary of the account.

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# Inherited Retirement Accounts – Required Distributions Under the SECURE Acts

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Funds in traditional IRAs<sup>1</sup> and qualified retirement plans may not be kept inside these tax-deferred accounts indefinitely. Under federal law, the money must eventually be distributed, and then subjected to tax, through yearly “Required Minimum Distributions,” or RMDs.<sup>2</sup>

The death of an account owner does not eliminate this requirement. However, the manner in which the assets in these accounts must be distributed post-death has changed over time, most recently with the SECURE Act of 2019 and the SECURE 2.0 Act of 2022.

## Required Minimum Distributions Before the SECURE Act of 2019

Under prior law, the post-death distribution requirements applied to inherited retirement accounts depended primarily on two factors:

- **Death on or after the required beginning date (RBD):** During life, an account owner was generally required to begin distributions no later than April 1 of the year following the year he or she reached age 72. The SECURE 2.0 Act of 2022 changed the required age to begin distributions to (1) age 73 for those born from 1951 to 1958; and (2) to age 75 for those born after 1958.
- **Who inherited the assets:** The law mandated certain minimum distribution periods, depending on who inherited the assets.

If an account owner passed away *before* reaching his or her RBD, the maximum allowable distribution periods were:

- **Surviving spouse:** A surviving spouse had two choices: (1) take ownership of the account, or (2) be treated as the beneficiary of the account. If the surviving spouse took *ownership*, distributions had to begin when the survivor reached age his or her RBD. As the *beneficiary* of the account, distributions had to begin by the later of (a) 12/31 of the year the owner would have reached his or her RBD (had he or she lived),

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<sup>1</sup> Here, the term “traditional IRA” also includes SIMPLE IRAs and SEP IRAs. Roth IRAs are subject to different distribution rules.

<sup>2</sup> This discussion concerns federal income tax law; state or local law may vary.

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## Inherited Retirement Accounts – Required Distributions Under the SECURE Acts

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or (b) 12/31 of the year after the year the owner died. In either case, distributions could be made over the surviving spouse's lifetime.

- **Designated beneficiary:** If the account owner had designated another individual as a beneficiary, distributions had to begin by 12/31 of the year after the year of death, with distributions made over the designated beneficiary's lifetime.
- **No designated beneficiary:**<sup>1</sup> The entire account balance was required to be distributed by the end of the fifth year after the year of the owner's death.

If an account owner passed away *on or after* reaching his or her RBD, the maximum allowable distribution periods were slightly different:

- **Surviving spouse:** An RMD had to be made for the deceased owner for the year of death. If the surviving spouse took *ownership* of the account, distributions were required to begin when the survivor reached his or her RBD, and be made over the surviving spouse's lifetime. As *beneficiary* of the account, distributions were required to begin by 12/31 of the year after the year of death, with distributions being made over the longer of the deceased owner's life expectancy in the year of death, or that of the surviving spouse.
- **Designated beneficiary:** An RMD had to be made for the deceased owner for the year of death. RMDs had to begin by 12/31 of the year after the year of death, with distributions made over the longer of the deceased owner's life expectancy in the year of death, or the beneficiary's life expectancy.
- **No designated beneficiary:** An RMD had to be made for the deceased owner for the year of death, with the remaining assets distributed over the deceased owner's life expectancy in the year of death.

The law prior to the SECURE Act provided a significant advantage in that beneficiaries could “stretch” out distribution of the inherited assets over many years, continuing the tax-deferred growth inside a retirement account for as long as legally possible.

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<sup>1</sup>For example, an account left to a charity, to the account owner's estate, or to a trust that didn't meet certain requirements.

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# Inherited Retirement Accounts – Required Distributions Under the SECURE Acts

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## Required Minimum Distributions After the SECURE Act

The SECURE Act of 2019, generally applicable to account owners dying after December 31, 2019, made major changes to the distribution requirements for inherited IRAs and defined contribution retirement accounts:

- **Shortened distribution period:** For many beneficiaries, the Act limited distribution of inherited retirement account assets to no more than 10 years. This 10-year distribution requirement applies regardless if the account owner died before, or on/after the required beginning date (RBD).
- **Eligible designated beneficiaries:** The Act created a new category of beneficiaries, known as “eligible designated beneficiaries.” These are individuals for whom the 10-year maximum distribution rule does not apply. These include:
  - A surviving spouse
  - A disabled individual
  - An individual who is chronically ill
  - An individual who is no more than 10 years younger than the deceased account owner
  - A minor child of the deceased account owner

With the exception of a minor child, all of these individuals are permitted to take distributions over their remaining lifetimes. Under IRS proposed regulations, a minor child reaches his or her “majority” at age 21, at which point the child becomes subject to the mandatory 10-year distribution rule.

If an account owner dies *before the RBD*, the distribution periods are generally as follows:

- **Surviving spouse:** As under prior law, a surviving spouse has two choices: (1) take ownership of the account in his or her own right, or (2) be treated as the beneficiary of the account:

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## Inherited Retirement Accounts – Required Distributions Under the SECURE Acts

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- If the surviving spouse becomes the *owner*, distributions are made over the survivor's lifetime, with distributions beginning when the survivor reaches his or her RBD.
- As the *beneficiary* of the account, distributions must begin by the later of 12/31 of the year the owner would have reached his or her RBD (had he or she lived), or 12/31 of the year after the year the owner dies. Distributions are made over the survivor's life expectancy.
- **Eligible designated beneficiaries:** Distributions must begin by 12/31 of the year after the year of death, with distributions made over the beneficiary's lifetime.
- **Designated beneficiary:** Distributions must be completed within 10 years.
- **No designated beneficiary:** The entire account must be distributed by the end of the fifth year after the year of the owner's death.

If the account owner dies *on or after the RBD*, the distribution requirements are somewhat different:

- **Surviving spouse:** An RMD must first be made for the deceased owner for the year of death.
- If the surviving spouse becomes the account *owner*, distributions are made over the survivor's lifetime, with distributions beginning when the survivor reaches his or her RBD.
- As the *beneficiary* of the account, the surviving spouse must begin to receive distributions by 12/31 of the year after the year of the owner's death. Distributions are made over the longer of the life expectancy of the owner in the year of death, or that of the surviving spouse.
- **Eligible designated beneficiary:** An RMD must be made for the account owner for the year of death. Required annual distributions must begin by 12/31 of the year after the year of death, with distributions made over the beneficiary's lifetime.

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## Inherited Retirement Accounts – Required Distributions Under the SECURE Acts

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- **Designated beneficiary:** An RMD must be made for the account owner for the year of death. Required annual distributions must begin by 12/31 of the year after the year of death, based on the greater of the life expectancy of the account owner, or that of the beneficiary. Funds in the account must be completely distributed within 10 years.
- **No designated beneficiary:** An RMD must be made for the account owner for the year of death. Required annual distributions must begin by 12/31 of the year after the year of death, with distributions made over the owner's life expectancy in the year of death.

### Recent IRS Guidance

In 2022, the IRS issued Notice 2022-53, to address the question of when, exactly, the new RMD rules under the SECURE Act of 2019 would apply, particularly for certain inherited accounts. The IRS noted that many observers were unsure of whether they should have taken an RMD for 2021 and were also uncertain as to whether or not they would be required to take an RMD for 2022. Among other points, Notice 2022-53 clarified that (1) final regulations<sup>1</sup> regarding RMDs as changed by the SECURE Act would apply *no earlier* than the *2023 calendar year*; and that (2) because the situation was unclear to taxpayers, the IRS would not seek to apply any of the normal penalties for RMDs not taken in 2021 or 2022.

On July 14, 2023, the IRS released Notice 2023-54 which effectively extended the transition relief provided in Notice 2022-53, and clarified that the final regulations regarding RMDs would apply no earlier than the *2024 calendar year*.

### Seek Professional Guidance

The changes in the distribution requirements for inherited retirement accounts contained in the SECURE Act of 2019 will have the effect of significantly speeding up the rate at which these assets are distributed and taxed. Particularly for individuals with larger IRA and retirement plan account balances, a review of the estate planning strategies currently in place is advisable. In this effort, the advice and guidance of trained, experienced tax and legal professionals is highly recommended.

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<sup>1</sup> The IRS issued *proposed* regulations on February 24, 2022.

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# Qualified Charitable Distribution

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When the owner of a traditional IRA reaches a certain age, known as the Required Beginning Date, or RBD, federal income tax law<sup>1</sup> requires that individual to begin taking a series of annual distributions from the IRA known as Required Minimum Distributions, or RMDs.<sup>2</sup>



For a typical IRA owner, where the traditional IRA was originally funded with deductible contributions, 100% of the RMD is included in the individual's taxable income in the year the funds are distributed.

If the IRA owner also wants to make a charitable contribution, he or she can make the donation, and then deduct the charitable gift as an itemized deduction on Schedule A of Form 1040. Depending on the individual's personal tax situation, the deduction on Schedule A may, or may not, completely offset the additional income tax from the RMD.

## Qualified Charitable Distributions

Federal income tax law contains a provision which allows certain IRA owners to take a distribution from their IRA, transfer those funds to qualifying charities, have the distribution count towards their annual RMD, and have the distribution *excluded* from taxable income. However, *no charitable deduction is allowed* for such a contribution. These distributions are called "Qualified Charitable Distributions," or QCDs.

## Requirements for a Qualified Charitable Distribution

There are a number of requirements that must be met in order for a distribution to be qualify as a QCD. Among these are:

- **Type of IRA:** QCDs may only be made from a traditional IRA, a Roth IRA, or a "deemed" IRA under an employer qualified plan. Qualified charitable distributions may not be made from either a SEP IRA or a SIMPLE IRA.

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<sup>1</sup> The discussion here concerns federal income tax law; state or local tax law may differ.

<sup>2</sup> Under current regulations, the age to begin RMDs increases after 2022 to: (1) age 73 for those born from 1951 to 1959; and (2) to age 75 for those born after 1959. Previously, age 72 was the mandated age to begin RMDs. Unlike a traditional IRA, a Roth IRA has no distribution requirement during the lifetime of the account owner.

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## Qualified Charitable Distribution

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- **Age requirement:** The IRA owner must be at least age 70½ at the time the distribution is made.
- **Dollar limitation:** In 2025, a QCD is limited to \$108,000 per person. For a married couple, each spouse may distribute up to \$108,000 per year. In 2024, the QCD limit was \$105,000 per person.
- **Qualifying charities:** QCDs may generally be made to most charitable organizations. However, federal tax law prohibits QCDs from being made to either supporting organizations or donor advised funds.
- **Direct transfer:** In order to qualify, charitable transfers must generally be made *directly* from the IRA trustee to the charitable organization. If an IRA owner receives a distribution from an IRA, and then separately writes a check to the charity, this does not qualify. In this case, the IRA owner will generally have received a taxable distribution and would be entitled to deduct the contribution.
- **Deductible and non-deductible contributions:** If an IRA owner has both deductible and non-deductible contributions in an IRA, only that portion of a distribution that comes from *deductible* contributions qualifies as a QCD.  
  
**Example:** a taxpayer has an IRA containing \$20,000 of deductible contributions and earnings, and \$5,000 of non-deductible contributions, a total of \$25,000. If the taxpayer gifts the \$25,000 to charity, only \$20,000 will be considered a QCD. The other \$5,000 is not included in income (it's already been taxed), but it may be deducted as an itemized deduction on Schedule A.
- **Inherited IRAs:** QCDs may be made from an inherited IRA as long as the beneficiary has reached the age of 70½ when the distribution is made.

### Failure to Meet the Requirements

If a qualified charitable distribution fails to meet all federal requirements, the result is:

1. To the extent the distribution consists of deductible contributions (and earnings), it will be included in the IRA owner's taxable income, and;
2. Any charitable contribution will be subject to the rules regarding deducting charitable donations, including the percentage of adjusted gross income (AGI) limitations, in effect in the year of contribution.

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## Qualified Charitable Distribution

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Any tax reduction will come from the IRA owner deducting the contribution as an itemized deduction on Schedule A.

### Benefits to Using a QCD

Although there is no charitable deduction for making a qualified charitable distribution, the fact that a QCD is not included in an IRA owner's taxable income, and thus keeps taxable income lower than it otherwise might be, can bring significant benefits:

- **Taxable social security benefits:** The taxable portion of an individual's Social Security payments (none, 50%, or 85%) is calculated based on his or her adjusted gross income (AGI).
- **Medicare Part B and Part D Premiums:** If a taxpayer's adjusted gross income is high enough, his or her Medicare Part B and/or Part D premiums could increase in future years.
- **Capital gains and qualified dividends:** The marginal income tax rate applicable to most capital gains and all qualified dividends varies, depending on an individual's taxable income. Additional income could cause these types of income to be taxed at higher rates.
- **Schedule A medical expense deduction:** Unreimbursed medical expenses in excess of 7.5% of AGI are deductible as an itemized deduction on Schedule A. A lower AGI could mean a higher medical expense deduction.
- **Larger charitable contributions:** Deductible charitable contributions are normally subject to certain percentage of AGI limitations. QCDs are not subject to these limits, which could result in a larger contribution to a favored charity.
- **Tax credits:** A number of tax credits (a dollar-for-dollar benefit against the tax due) are phased-out when a taxpayer's AGI exceeds specified limits.
- **State taxes:** A number of states use the AGI figure from a taxpayer's federal income tax return as a part of the state tax calculation. A lower federal AGI may help reduce any state income tax liability.

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## Qualified Charitable Distribution

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### SECURE Act Impact on Qualified Charitable Distributions (QCDs)

One provision of the SECURE Act, for tax years beginning after December 31, 2019, repealed the prohibition on an individual making a contribution to a traditional IRA after reaching age 70½. This change allows an individual to make a contribution to a traditional IRA at any age, assuming that he or she has “compensation” and meets other requirements. The act also introduced a provision that if an individual makes a *deductible* contribution to a traditional IRA after age 70½, and also takes a QCD, the amount of income excluded because of the QCD may be *reduced*, to reflect the deduction allowed for contributing to the traditional IRA.

### SECURE 2.0 Act of 2022 Changes to Qualified Charitable Distributions

The SECURE 2.0 Act of 2022 made several changes to the law concerning QCDs:

- **One-time charitable distribution to a split-interest entity:** For tax years beginning after December 29, 2022, the Act provided for a *one-time* charitable distribution of up to \$53,000 (\$54,000 in 2025) to a charitable gift annuity (CGA), a charitable remainder unitrust (CRUT), or a charitable remainder annuity trust (CRAT). The CGA, CRUT, or CRAT must benefit only the donor or his or her spouse, or both. The Act also required that the annuity or trust be funded *only* with qualified charitable distributions, and that any CGA must begin fixed payments of at least 5.0% no later than one year from when the funds were distributed. This new provision is in addition to the annual qualified charitable distribution discussed earlier.
- **Taxation of income received:** As the law is written, the income derived from a CGA, a CRUT, or a CRAT funded with a qualified charitable distribution will be 100% taxable as ordinary income. This is true regardless of whether the QCD is made from an IRA funded with pre-tax contributions, or from a Roth IRA funded with after-tax contributions.

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## Qualified Charitable Distribution

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### Qualified Charitable Distributions from Roth IRAs

Although federal law allows QCDs to be made from Roth IRAs, there is generally little benefit to making a QCD from a Roth. First, Roth IRAs have no minimum distribution requirement during the account owner's lifetime. Second, a "qualified" distribution from a Roth IRA (one made after five years and meeting certain other requirements) is excluded from taxable income. Thus, by statute, a Roth IRA already provides two key benefits of a QCD.

A Roth IRA owner who wishes to make a charitable contribution is generally better advised to simply ignore the QCD provision. Assuming that distributions from the account are "qualified," a Roth owner can generally take a distribution from the account, not include the distribution in taxable income, make a charitable gift, and then deduct the charitable donation as an itemized deduction on Schedule A.

### Seek Professional Guidance

As with many tax questions, a decision to make a qualified charitable distribution is best done after "crunching the numbers" to estimate, in advance, the effect of such a choice on an individual's tax situation. In this effort, the advice and guidance of trained, experienced tax and financial professionals is strongly recommended.

# Joint and Last Survivor Table (2022)

IRS Reg. 1.401(a)(9)-9, Q&A-3<sup>1</sup>

Joint and Last Survivor Table. The following table, referred to as the Joint and Last Survivor Table, is used for determining the joint and last survivor life expectancy of two individuals.

Table 3 to Paragraph (d)

Ages	0	1	2	3	4	5	6	7	8
0	91.9	91.4	91.0	90.5	90.1	89.7	89.4	89.0	88.7
1	91.4	90.9	90.4	90.0	89.5	89.1	88.8	88.4	88.1
2	91.0	90.4	89.9	89.4	89.0	88.5	88.1	87.8	87.4
3	90.5	90.0	89.4	88.9	88.4	88.0	87.6	87.1	86.8
4	90.1	89.5	89.0	88.4	87.9	87.4	87.0	86.6	86.2
5	89.7	89.1	88.6	88.0	87.4	86.9	86.5	86.0	85.6
6	89.4	88.8	88.1	87.6	87.0	86.5	85.9	85.5	85.0
7	89.0	88.4	87.8	87.1	86.6	86.0	85.5	84.9	84.5
8	88.7	88.1	87.4	86.8	86.2	85.6	85.0	84.5	83.9
9	88.4	87.8	87.1	86.4	85.8	85.2	84.6	84.0	83.5
10	88.2	87.5	86.8	86.1	85.4	84.8	84.2	83.6	83.0
11	87.9	87.2	86.5	85.8	85.1	84.4	83.8	83.2	82.6
12	87.7	87.0	86.2	85.5	84.8	84.1	83.4	82.8	82.2
13	87.5	86.7	86.0	85.2	84.5	83.8	83.1	82.4	81.8
14	87.3	86.5	85.7	85.0	84.2	83.5	82.8	82.1	81.4
15	87.1	86.3	85.5	84.7	84.0	83.2	82.5	81.8	81.1
16	86.9	86.1	85.3	84.5	83.7	83.0	82.2	81.5	80.8
17	86.8	86.0	85.1	84.3	83.5	82.7	82.0	81.2	80.5
18	86.6	85.8	85.0	84.1	83.3	82.5	81.7	81.0	80.2
19	86.5	85.7	84.8	84.0	83.1	82.3	81.5	80.7	80.0
20	86.4	85.5	84.7	83.8	83.0	82.2	81.3	80.5	79.8
21	86.2	85.4	84.5	83.7	82.8	82.0	81.2	80.3	79.5
22	86.1	85.3	84.4	83.5	82.7	81.8	81.0	80.2	79.3

<sup>1</sup> The life expectancies shown in this table apply to required minimum distributions required to be made *beginning January 1, 2022 and later*. For required minimum distributions before this date, different life expectancies apply.

## Joint and Last Survivor Table (2022)

Ages	0	1	2	3	4	5	6	7	8
23	86.0	85.2	84.3	83.4	82.5	81.7	80.8	80.0	79.2
24	85.9	85.1	84.2	83.3	82.4	81.6	80.7	79.8	79.0
25	85.9	85.0	84.1	83.2	82.3	81.4	80.6	79.7	78.8
26	85.8	84.9	84.0	83.1	82.2	81.3	80.4	79.6	78.7
27	85.7	84.8	83.9	83.0	82.1	81.2	80.3	79.4	78.6
28	85.6	84.7	83.8	82.9	82.0	81.1	80.2	79.3	78.4
29	85.6	84.7	83.8	82.8	81.9	81.0	80.1	79.2	78.3
30	85.5	84.6	83.7	82.8	81.8	80.9	80.0	79.1	78.2
31	85.4	84.6	83.6	82.7	81.8	80.9	79.9	79.0	78.1
32	85.4	84.5	83.6	82.6	81.7	80.8	79.9	78.9	78.0
33	85.3	84.5	83.5	82.6	81.6	80.7	79.8	78.9	77.9
34	85.3	84.4	83.5	82.5	81.6	80.7	79.7	78.8	77.9
35	85.3	84.4	83.4	82.5	81.5	80.6	79.7	78.7	77.8
36	85.2	84.3	83.4	82.4	81.5	80.5	79.6	78.7	77.7
37	85.2	84.3	83.3	82.4	81.4	80.5	79.5	78.6	77.7
38	85.2	84.3	83.3	82.3	81.4	80.4	79.5	78.6	77.6
39	85.1	84.2	83.3	82.3	81.4	80.4	79.5	78.5	77.6
40	85.1	84.2	83.2	82.3	81.3	80.4	79.4	78.5	77.5
41	85.1	84.2	83.2	82.2	81.3	80.3	79.4	78.4	77.5
42	85.0	84.1	83.2	82.2	81.3	80.3	79.3	78.4	77.4
43	85.0	84.1	83.1	82.2	81.2	80.3	79.3	78.3	77.4
44	85.0	84.1	83.1	82.2	81.2	80.2	79.3	78.3	77.3
45	85.0	84.1	83.1	82.1	81.2	80.2	79.2	78.3	77.3
46	84.9	84.0	83.1	82.1	81.1	80.2	79.2	78.2	77.3
47	84.9	84.0	83.1	82.1	81.1	80.2	79.2	78.2	77.3
48	84.9	84.0	83.0	82.1	81.1	80.1	79.2	78.2	77.2
49	84.9	84.0	83.0	82.1	81.1	80.1	79.1	78.2	77.2
50	84.9	84.0	83.0	82.0	81.1	80.1	79.1	78.1	77.2
51	84.8	84.0	83.0	82.0	81.0	80.1	79.1	78.1	77.2
52	84.8	83.9	83.0	82.0	81.0	80.1	79.1	78.1	77.1
53	84.8	83.9	83.0	82.0	81.0	80.0	79.1	78.1	77.1
54	84.8	83.9	82.9	82.0	81.0	80.0	79.0	78.1	77.1

## Joint and Last Survivor Table (2022)

Ages	0	1	2	3	4	5	6	7	8
55	84.8	83.9	82.9	82.0	81.0	80.0	79.0	78.1	77.1
56	84.8	83.9	82.9	81.9	81.0	80.0	79.0	78.0	77.1
57	84.8	83.9	82.9	81.9	81.0	80.0	79.0	78.0	77.0
58	84.8	83.9	82.9	81.9	80.9	80.0	79.0	78.0	77.0
59	84.7	83.9	82.9	81.9	80.9	80.0	79.0	78.0	77.0
60	84.7	83.8	82.9	81.9	80.9	79.9	79.0	78.0	77.0
61	84.7	83.8	82.9	81.9	80.9	79.9	79.0	78.0	77.0
62	84.7	83.8	82.9	81.9	80.9	79.9	78.9	78.0	77.0
63	84.7	83.8	82.9	81.9	80.9	79.9	78.9	78.0	77.0
64	84.7	83.8	82.8	81.9	80.9	79.9	78.9	77.9	77.0
65	84.7	83.8	82.8	81.9	80.9	79.9	78.9	77.9	77.0
66	84.7	83.8	82.8	81.9	80.9	79.9	78.9	77.9	76.9
67	84.7	83.8	82.8	81.9	80.9	79.9	78.9	77.9	76.9
68	84.7	83.8	82.8	81.8	80.9	79.9	78.9	77.9	76.9
69	84.7	83.8	82.8	81.8	80.9	79.9	78.9	77.9	76.9
70	84.7	83.8	82.8	81.8	80.9	79.9	78.9	77.9	76.9
71	84.7	83.8	82.8	81.8	80.9	79.9	78.9	77.9	76.9
72	84.7	83.8	82.8	81.8	80.9	79.9	78.9	77.9	76.9
73	84.6	83.8	82.8	81.8	80.8	79.9	78.9	77.9	76.9
74	84.6	83.8	82.8	81.8	80.8	79.9	78.9	77.9	76.9
75	84.6	83.8	82.8	81.8	80.8	79.9	78.9	77.9	76.9
76	84.6	83.8	82.8	81.8	80.8	79.9	78.9	77.9	76.9
77	84.6	83.8	82.8	81.8	80.8	79.8	78.9	77.9	76.9
78	84.6	83.8	82.8	81.8	80.8	79.8	78.9	77.9	76.9
79	84.6	83.8	82.8	81.8	80.8	79.8	78.9	77.9	76.9
80	84.6	83.8	82.8	81.8	80.8	79.8	78.9	77.9	76.9
81	84.6	83.8	82.8	81.8	80.8	79.8	78.9	77.9	76.9
82	84.6	83.8	82.8	81.8	80.8	79.8	78.9	77.9	76.9
83	84.6	83.7	82.8	81.8	80.8	79.8	78.9	77.9	76.9
84	84.6	83.7	82.8	81.8	80.8	79.8	78.9	77.9	76.9
85	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
86	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9

## Joint and Last Survivor Table (2022)

Ages	0	1	2	3	4	5	6	7	8
87	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
88	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
89	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
90	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
91	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
92	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
93	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
94	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
95	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
96	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
97	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
98	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
99	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
100	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
101	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
102	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
103	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
104	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
105	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
106	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
107	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
108	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
109	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
110	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
111	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
112	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
113	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
114	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
115	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
116	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
117	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
118	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9

## Joint and Last Survivor Table (2022)

Ages	0	1	2	3	4	5	6	7	8
119	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9
120+	84.6	83.7	82.8	81.8	80.8	79.8	78.8	77.9	76.9

Ages	9	10	11	12	13	14	15	16	17
0	88.4	88.2	87.9	87.7	87.5	87.3	87.1	86.9	86.8
1	87.8	87.5	87.2	87.0	86.7	86.5	86.3	86.1	86.0
2	87.1	86.8	86.5	86.2	86.0	85.7	85.5	85.3	85.1
3	86.4	86.1	85.8	85.5	85.2	85.0	84.7	84.5	84.3
4	85.8	85.4	85.1	84.8	84.5	84.2	84.0	83.7	83.5
5	85.2	84.8	84.4	84.1	83.8	83.5	83.2	83.0	82.7
6	84.6	84.2	83.8	83.4	83.1	82.8	82.5	82.2	82.0
7	84.0	83.6	83.2	82.8	82.4	82.1	81.8	81.5	81.2
8	83.5	83.0	82.6	82.2	81.8	81.4	81.1	80.8	80.5
9	82.9	82.5	82.0	81.6	81.2	80.8	80.4	80.1	79.8
10	82.5	81.9	81.5	81.0	80.6	80.2	79.8	79.4	79.1
11	82.0	81.5	80.9	80.5	80.0	79.6	79.2	78.8	78.4
12	81.6	81.0	80.5	79.9	79.5	79.0	78.6	78.2	77.8
13	81.2	80.6	80.0	79.5	79.0	78.5	78.0	77.6	77.2
14	80.8	80.2	79.6	79.0	78.5	78.0	77.5	77.0	76.6
15	80.4	79.8	79.2	78.6	78.0	77.5	77.0	76.5	76.0
16	80.1	79.4	78.8	78.2	77.6	77.0	76.5	76.0	75.5
17	79.8	79.1	78.4	77.8	77.2	76.6	76.0	75.5	75.0
18	79.5	78.8	78.1	77.4	76.8	76.2	75.6	75.0	74.5
19	79.2	78.5	77.8	77.1	76.4	75.8	75.2	74.6	74.0
20	79.0	78.2	77.5	76.8	76.1	75.4	74.8	74.2	73.6
21	78.8	78.0	77.2	76.5	75.8	75.1	74.4	73.8	73.2
22	78.5	77.8	77.0	76.2	75.5	74.8	74.1	73.4	72.8
23	78.3	77.5	76.8	76.0	75.2	74.5	73.8	73.1	72.5
24	78.2	77.3	76.5	75.8	75.0	74.2	73.5	72.8	72.1
25	78.0	77.2	76.4	75.6	74.8	74.0	73.3	72.5	71.8
26	77.8	77.0	76.2	75.4	74.6	73.8	73.0	72.3	71.5

## Joint and Last Survivor Table (2022)

Ages	9	10	11	12	13	14	15	16	17
27	77.7	76.8	76.0	75.2	74.4	73.6	72.8	72.0	71.3
28	77.6	76.7	75.8	75.0	74.2	73.4	72.6	71.8	71.0
29	77.4	76.6	75.7	74.9	74.0	73.2	72.4	71.6	70.8
30	77.3	76.4	75.6	74.7	73.9	73.0	72.2	71.4	70.6
31	77.2	76.3	75.5	74.6	73.7	72.9	72.0	71.2	70.4
32	77.1	76.2	75.3	74.5	73.6	72.7	71.9	71.0	70.2
33	77.0	76.1	75.2	74.3	73.5	72.6	71.7	70.9	70.0
34	77.0	76.0	75.1	74.2	73.3	72.5	71.6	70.7	69.9
35	76.9	76.0	75.0	74.1	73.2	72.4	71.5	70.6	69.7
36	76.8	75.9	75.0	74.0	73.1	72.2	71.4	70.5	69.6
37	76.7	75.8	74.9	74.0	73.1	72.1	71.3	70.4	69.5
38	76.7	75.7	74.8	73.9	73.0	72.1	71.2	70.3	69.4
39	76.6	75.7	74.7	73.8	72.9	72.0	71.1	70.2	69.3
40	76.6	75.6	74.7	73.7	72.8	71.9	71.0	70.1	69.2
41	76.5	75.6	74.6	73.7	72.8	71.8	70.9	70.0	69.1
42	76.5	75.5	74.6	73.6	72.7	71.8	70.8	69.9	69.0
43	76.4	75.5	74.5	73.6	72.6	71.7	70.8	69.8	68.9
44	76.4	75.4	74.5	73.5	72.6	71.6	70.7	69.8	68.8
45	76.4	75.4	74.4	73.5	72.5	71.6	70.6	69.7	68.8
46	76.3	75.4	74.4	73.4	72.5	71.5	70.6	69.7	68.7
47	76.3	75.3	74.4	73.4	72.4	71.5	70.5	69.6	68.7
48	76.3	75.3	74.3	73.4	72.4	71.5	70.5	69.6	68.6
49	76.2	75.3	74.3	73.3	72.4	71.4	70.5	69.5	68.6
0	76.2	75.2	74.3	73.3	72.3	71.4	70.4	69.5	68.5
51	76.2	75.2	74.2	73.3	72.3	71.3	70.4	69.4	68.5
52	76.2	75.2	74.2	73.2	72.3	71.3	70.4	69.4	68.4
53	76.1	75.2	74.2	73.2	72.3	71.3	70.3	69.4	68.4
54	76.1	75.1	74.2	73.2	72.2	71.3	70.3	69.3	68.4
55	76.1	75.1	74.2	73.2	72.2	71.2	70.3	69.3	68.3
56	76.1	75.1	74.1	73.2	72.2	71.2	70.2	69.3	68.3
57	76.1	75.1	74.1	73.1	72.2	71.2	70.2	69.3	68.3
58	76.1	75.1	74.1	73.1	72.1	71.2	70.2	69.2	68.3

## Joint and Last Survivor Table (2022)

Ages	9	10	11	12	13	14	15	16	17
59	76.0	75.1	74.1	73.1	72.1	71.2	70.2	69.2	68.2
60	76.0	75.0	74.1	73.1	72.1	71.1	70.2	69.2	68.2
61	76.0	75.0	74.1	73.1	72.1	71.1	70.1	69.2	68.2
62	76.0	75.0	74.0	73.1	72.1	71.1	70.1	69.2	68.2
63	76.0	75.0	74.0	73.0	72.1	71.1	70.1	69.1	68.2
64	76.0	75.0	74.0	73.0	72.1	71.1	70.1	69.1	68.2
65	76.0	75.0	74.0	73.0	72.0	71.1	70.1	69.1	68.1
66	76.0	75.0	74.0	73.0	72.0	71.1	70.1	69.1	68.1
67	76.0	75.0	74.0	73.0	72.0	71.0	70.1	69.1	68.1
68	75.9	75.0	74.0	73.0	72.0	71.0	70.1	69.1	68.1
69	75.9	75.0	74.0	73.0	72.0	71.0	70.0	69.1	68.1
70	75.9	74.9	74.0	73.0	72.0	71.0	70.0	69.1	68.1
71	75.9	74.9	74.0	73.0	72.0	71.0	70.0	69.0	68.1
72	75.9	74.9	73.9	73.0	72.0	71.0	70.0	69.0	68.1
73	75.9	74.9	73.9	73.0	72.0	71.0	70.0	69.0	68.1
74	75.9	74.9	73.9	73.0	72.0	71.0	70.0	69.0	68.0
75	75.9	74.9	73.9	72.9	72.0	71.0	70.0	69.0	68.0
76	75.9	74.9	73.9	72.9	72.0	71.0	70.0	69.0	68.0
77	75.9	74.9	73.9	72.9	72.0	71.0	70.0	69.0	68.0
78	75.9	74.9	73.9	72.9	71.9	71.0	70.0	69.0	68.0
79	75.9	74.9	73.9	72.9	71.9	71.0	70.0	69.0	68.0
80	75.9	74.9	73.9	72.9	71.9	71.0	70.0	69.0	68.0
81	75.9	74.9	73.9	72.9	71.9	71.0	70.0	69.0	68.0
82	75.9	74.9	73.9	72.9	71.9	70.9	70.0	69.0	68.0
83	75.9	74.9	73.9	72.9	71.9	70.9	70.0	69.0	68.0
84	75.9	74.9	73.9	72.9	71.9	70.9	70.0	69.0	68.0
85	75.9	74.9	73.9	72.9	71.9	70.9	70.0	69.0	68.0
86	75.9	74.9	73.9	72.9	71.9	70.9	70.0	69.0	68.0
87	75.9	74.9	73.9	72.9	71.9	70.9	70.0	69.0	68.0
88	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
89	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
90	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0

## Joint and Last Survivor Table (2022)

Ages	9	10	11	12	13	14	15	16	17
91	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
92	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
93	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
94	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
95	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
96	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
97	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
98	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
99	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
100	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
101	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
102	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
103	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
104	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
105	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
106	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
107	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
108	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
109	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
110	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
111	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
112	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
113	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
114	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
115	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
116	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
117	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
118	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
119	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0
120+	75.9	74.9	73.9	72.9	71.9	70.9	69.9	69.0	68.0

## Joint and Last Survivor Table (2022)

Ages	18	19	20	21	22	23	24	25	26
0	86.6	86.5	86.4	86.2	86.1	86.0	85.9	85.9	85.8
1	85.8	85.7	85.5	85.4	85.3	85.2	85.1	85.0	84.9
2	85.0	84.8	84.7	84.5	84.4	84.3	84.2	84.1	84.0
3	84.1	84.0	83.8	83.7	83.5	83.4	83.3	83.2	83.1
4	83.3	83.1	83.0	82.8	82.7	82.5	82.4	82.3	82.2
5	82.5	82.3	82.2	82.0	81.8	81.7	81.6	81.4	81.3
6	81.7	81.5	81.3	81.2	81.0	80.8	80.7	80.6	80.4
7	81.0	80.7	80.5	80.3	80.2	80.0	79.8	79.7	79.6
8	80.2	80.0	79.8	79.5	79.3	79.2	79.0	78.8	78.7
9	79.5	79.2	79.0	78.8	78.5	78.3	78.2	78.0	77.8
10	78.8	78.5	78.2	78.0	77.8	77.5	77.3	77.2	77.0
11	78.1	77.8	77.5	77.2	77.0	76.8	76.5	76.4	76.2
12	77.4	77.1	76.8	76.5	76.2	76.0	75.8	75.6	75.4
13	76.8	76.4	76.1	75.8	75.5	75.2	75.0	74.8	74.6
14	76.2	75.8	75.4	75.1	74.8	74.5	74.2	74.0	73.8
15	75.6	75.2	74.8	74.4	74.1	73.8	73.5	73.3	73.0
16	75.0	74.6	74.2	73.8	73.4	73.1	72.8	72.5	72.3
17	74.5	74.0	73.6	73.2	72.8	72.5	72.1	71.8	71.5
18	74.0	73.5	73.0	72.6	72.2	71.8	71.5	71.1	70.8
19	73.5	73.0	72.5	72.0	71.6	71.2	70.8	70.5	70.1
20	73.0	72.5	72.0	71.5	71.0	70.6	70.2	69.8	69.5
21	72.6	72.0	71.5	71.0	70.5	70.0	69.6	69.2	68.8
22	72.2	71.6	71.0	70.5	70.0	69.5	69.0	68.6	68.2
23	71.8	71.2	70.6	70.0	69.5	69.0	68.5	68.0	67.6
24	71.5	70.8	70.2	69.6	69.0	68.5	68.0	67.5	67.1
25	71.1	70.5	69.8	69.2	68.6	68.0	67.5	67.0	66.5
26	70.8	70.1	69.5	68.8	68.2	67.6	67.1	66.5	66.0
27	70.5	69.8	69.1	68.5	67.8	67.2	66.6	66.1	65.5
28	70.3	69.5	68.8	68.1	67.5	66.8	66.2	65.6	65.1
29	70.0	69.3	68.5	67.8	67.1	66.5	65.8	65.2	64.6
30	69.8	69.0	68.3	67.5	66.8	66.2	65.5	64.9	64.2
31	69.6	68.8	68.0	67.3	66.6	65.8	65.2	64.5	63.9

## Joint and Last Survivor Table (2022)

Ages	18	19	20	21	22	23	24	25	26
32	69.4	68.6	67.8	67.0	66.3	65.6	64.9	64.2	63.5
33	69.2	68.4	67.6	66.8	66.0	65.3	64.6	63.9	63.2
34	69.0	68.2	67.4	66.6	65.8	65.1	64.3	63.6	62.9
35	68.9	68.0	67.2	66.4	65.6	64.8	64.1	63.3	62.6
36	68.7	67.9	67.1	66.2	65.4	64.6	63.8	63.1	62.3
37	68.6	67.7	66.9	66.1	65.2	64.4	63.6	62.8	62.1
38	68.5	67.6	66.8	65.9	65.1	64.2	63.4	62.6	61.9
39	68.4	67.5	66.6	65.8	64.9	64.1	63.3	62.4	61.6
40	68.3	67.4	66.5	65.6	64.8	63.9	63.1	62.3	61.5
41	68.2	67.3	66.4	65.5	64.6	63.8	62.9	62.1	61.3
42	68.1	67.2	66.3	65.4	64.5	63.6	62.8	61.9	61.1
43	68.0	67.1	66.2	65.3	64.4	63.5	62.7	61.8	61.0
44	67.9	67.0	66.1	65.2	64.3	63.4	62.5	61.7	60.8
45	67.9	66.9	66.0	65.1	64.2	63.3	62.4	61.5	60.7
46	67.8	66.9	65.9	65.0	64.1	63.2	62.3	61.4	60.6
47	67.7	66.8	65.9	65.0	64.0	63.1	62.2	61.3	60.5
48	67.7	66.7	65.8	64.9	64.0	63.0	62.1	61.2	60.3
49	67.6	66.7	65.7	64.8	63.9	63.0	62.1	61.2	60.3
50	67.6	66.6	65.7	64.8	63.8	62.9	62.0	61.1	60.2
51	67.5	66.6	65.6	64.7	63.8	62.8	61.9	61.0	60.1
52	67.5	66.5	65.6	64.7	63.7	62.8	61.9	60.9	60.0
53	67.4	66.5	65.5	64.6	63.7	62.7	61.8	60.9	59.9
54	67.4	66.5	65.5	64.6	63.6	62.7	61.7	60.8	59.9
55	67.4	66.4	65.5	64.5	63.6	62.6	61.7	60.8	59.8
56	67.4	66.4	65.4	64.5	63.5	62.6	61.6	60.7	59.8
57	67.3	66.4	65.4	64.5	63.5	62.5	61.6	60.7	59.7
58	67.3	66.3	65.4	64.4	63.5	62.5	61.6	60.6	59.7
59	67.3	66.3	65.4	64.4	63.4	62.5	61.5	60.6	59.6
60	67.3	66.3	65.3	64.4	63.4	62.4	61.5	60.5	59.6
61	67.2	66.3	65.3	64.3	63.4	62.4	61.5	60.5	59.6
62	67.2	66.2	65.3	64.3	63.4	62.4	61.4	60.5	59.5
63	67.2	66.2	65.3	64.3	63.3	62.4	61.4	60.5	59.5

## Joint and Last Survivor Table (2022)

Ages	18	19	20	21	22	23	24	25	26
64	67.2	66.2	65.2	64.3	63.3	62.3	61.4	60.4	59.5
65	67.2	66.2	65.2	64.3	63.3	62.3	61.4	60.4	59.5
66	67.2	66.2	65.2	64.2	63.3	62.3	61.3	60.4	59.4
67	67.1	66.2	65.2	64.2	63.3	62.3	61.3	60.4	59.4
68	67.1	66.2	65.2	64.2	63.2	62.3	61.3	60.3	59.4
69	67.1	66.1	65.2	64.2	63.2	62.3	61.3	60.3	59.4
70	67.1	66.1	65.2	64.2	63.2	62.2	61.3	60.3	59.4
71	67.1	66.1	65.1	64.2	63.2	62.2	61.3	60.3	59.3
72	67.1	66.1	65.1	64.2	63.2	62.2	61.3	60.3	59.3
73	67.1	66.1	65.1	64.2	63.2	62.2	61.2	60.3	59.3
74	67.1	66.1	65.1	64.1	63.2	62.2	61.2	60.3	59.3
75	67.1	66.1	65.1	64.1	63.2	62.2	61.2	60.3	59.3
76	67.1	66.1	65.1	64.1	63.2	62.2	61.2	60.2	59.3
77	67.0	66.1	65.1	64.1	63.1	62.2	61.2	60.2	59.3
78	67.0	66.1	65.1	64.1	63.1	62.2	61.2	60.2	59.3
79	67.0	66.1	65.1	64.1	63.1	62.2	61.2	60.2	59.3
80	67.0	66.1	65.1	64.1	63.1	62.1	61.2	60.2	59.2
81	67.0	66.0	65.1	64.1	63.1	62.1	61.2	60.2	59.2
82	67.0	66.0	65.1	64.1	63.1	62.1	61.2	60.2	59.2
83	67.0	66.0	65.1	64.1	63.1	62.1	61.2	60.2	59.2
84	67.0	66.0	65.1	64.1	63.1	62.1	61.2	60.2	59.2
85	67.0	66.0	65.1	64.1	63.1	62.1	61.2	60.2	59.2
86	67.0	66.0	65.1	64.1	63.1	62.1	61.1	60.2	59.2
87	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
88	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
89	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
90	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
91	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
92	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
93	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
94	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
95	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2

## Joint and Last Survivor Table (2022)

Ages	18	19	20	21	22	23	24	25	26
96	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
97	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
98	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
99	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
100	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
101	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
102	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
103	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
104	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
105	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
106	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
107	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
108	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
109	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
110	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
111	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
112	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
113	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
114	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
115	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
116	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
117	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
118	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
119	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2
120+	67.0	66.0	65.0	64.1	63.1	62.1	61.1	60.2	59.2

## Joint and Last Survivor Table (2022)

Ages	27	28	29	30	31	32	33	34	35
0	85.7	85.6	85.6	85.5	85.4	85.4	85.3	85.3	85.3
1	84.8	84.7	84.7	84.6	84.6	84.5	84.5	84.4	84.4
2	83.9	83.8	83.8	83.7	83.6	83.6	83.5	83.5	83.4
3	83.0	82.9	82.8	82.8	82.7	82.6	82.6	82.5	82.5
4	82.1	82.0	81.9	81.8	81.8	81.7	81.6	81.6	81.5
5	81.2	81.1	81.0	80.9	80.9	80.8	80.7	80.7	80.6
6	80.3	80.2	80.1	80.0	79.9	79.9	79.8	79.7	79.7
7	79.4	79.3	79.2	79.1	79.0	78.9	78.9	78.8	78.7
8	78.6	78.4	78.3	78.2	78.1	78.0	77.9	77.9	77.8
9	77.7	77.6	77.4	77.3	77.2	77.1	77.0	77.0	76.9
10	76.8	76.7	76.6	76.4	76.3	76.2	76.1	76.0	76.0
11	76.0	75.8	75.7	75.6	75.5	75.3	75.2	75.1	75.0
12	75.2	75.0	74.9	74.7	74.6	74.5	74.3	74.2	74.1
13	74.4	74.2	74.0	73.9	73.7	73.6	73.5	73.3	73.2
14	73.6	73.4	73.2	73.0	72.9	72.7	72.6	72.5	72.4
15	72.8	72.6	72.4	72.2	72.0	71.9	71.7	71.6	71.5
16	72.0	71.8	71.6	71.4	71.2	71.0	70.9	70.7	70.6
17	71.3	71.0	70.8	70.6	70.4	70.2	70.0	69.9	69.7
18	70.5	70.3	70.0	69.8	69.6	69.4	69.2	69.0	68.9
19	69.8	69.5	69.3	69.0	68.8	68.6	68.4	68.2	
20	69.1	68.8	68.5	68.3	68.0	67.8	67.6	67.4	67.2
21	68.5	68.1	67.8	67.5	67.3	67.0	66.8	66.6	66.4
22	67.8	67.5	67.1	66.8	66.6	66.3	66.0	65.8	65.6
23	67.2	66.8	66.5	66.2	65.8	65.6	65.3	65.1	64.8
24	66.6	66.2	65.8	65.5	65.2	64.9	64.6	64.3	64.1
25	66.1	65.6	65.2	64.9	64.5	64.2	63.9	63.6	63.3
26	65.5	65.1	64.6	64.2	63.9	63.5	63.2	62.9	62.6
27	65.0	64.5	64.1	63.7	63.2	62.9	62.5	62.2	61.9
28	64.5	64.0	63.5	63.1	62.7	62.3	61.9	61.5	61.2
29	64.1	63.5	63.0	62.6	62.1	61.7	61.3	60.9	60.5
30	63.7	63.1	62.6	62.0	61.6	61.1	60.7	60.3	59.9
31	63.2	62.7	62.1	61.6	61.1	60.6	60.1	59.7	59.3

## Joint and Last Survivor Table (2022)

Ages	27	28	29	30	31	32	33	34	35
32	62.9	62.3	61.7	61.1	60.6	60.1	59.6	59.1	58.7
33	62.5	61.9	61.3	60.7	60.1	59.6	59.1	58.6	58.1
34	62.2	61.5	60.9	60.3	59.7	59.1	58.6	58.1	57.6
35	61.9	61.2	60.5	59.9	59.3	58.7	58.1	57.6	57.1
36	61.6	60.9	60.2	59.5	58.9	58.3	57.7	57.2	56.6
37	61.3	60.6	59.9	59.2	58.6	57.9	57.3	56.7	56.2
38	61.1	60.3	59.6	58.9	58.2	57.6	56.9	56.3	55.7
39	60.9	60.1	59.4	58.6	57.9	57.2	56.6	55.9	55.3
40	60.7	59.9	59.1	58.4	57.6	56.9	56.3	55.6	55.0
41	60.5	59.7	58.9	58.1	57.4	56.7	56.0	55.3	54.6
42	60.3	59.5	58.7	57.9	57.1	56.4	55.7	55.0	54.3
43	60.1	59.3	58.5	57.7	56.9	56.2	55.4	54.7	54.0
44	60.0	59.1	58.3	57.5	56.7	55.9	55.2	54.4	53.7
45	59.8	59.0	58.1	57.3	56.5	55.7	54.9	54.2	53.4
46	59.7	58.8	58.0	57.2	56.3	55.5	54.7	54.0	53.2
47	59.6	58.7	57.9	57.0	56.2	55.4	54.5	53.7	53.0
48	59.5	58.6	57.7	56.9	56.0	55.2	54.4	53.6	52.8
49	59.4	58.5	57.6	56.7	55.9	55.0	54.2	53.4	52.6
50	59.3	58.4	57.5	56.6	55.8	54.9	54.1	53.2	52.4
51	59.2	58.3	57.4	56.5	55.6	54.8	53.9	53.1	52.2
52	59.1	58.2	57.3	56.4	55.5	54.7	53.8	52.9	52.1
53	59.0	58.1	57.2	56.3	55.4	54.6	53.7	52.8	52.0
54	59.0	58.0	57.1	56.2	55.3	54.5	53.6	52.7	51.8
55	58.9	58.0	57.1	56.2	55.3	54.4	53.5	52.6	51.7
56	58.8	57.9	57.0	56.1	55.2	54.3	53.4	52.5	51.6
57	58.8	57.9	56.9	56.0	55.1	54.2	53.3	52.4	51.5
58	58.7	57.8	56.9	56.0	55.0	54.1	53.2	52.3	51.4
59	58.7	57.8	56.8	55.9	55.0	54.1	53.2	52.2	51.3
60	58.7	57.7	56.8	55.9	54.9	54.0	53.1	52.2	51.3
61	58.6	57.7	56.7	55.8	54.9	54.0	53.0	52.1	51.2
62	58.6	57.6	56.7	55.8	54.8	53.9	53.0	52.1	51.1
63	58.6	57.6	56.7	55.7	54.8	53.9	52.9	52.0	51.1

## Joint and Last Survivor Table (2022)

Ages	27	28	29	30	31	32	33	34	35
64	58.5	57.6	56.6	55.7	54.8	53.8	52.9	52.0	51.0
65	58.5	57.5	56.6	55.7	54.7	53.8	52.8	51.9	51.0
66	58.5	57.5	56.6	55.6	54.7	53.7	52.8	51.9	50.9
67	58.5	57.5	56.5	55.6	54.7	53.7	52.8	51.8	50.9
68	58.4	57.5	56.5	55.6	54.6	53.7	52.7	51.8	50.9
69	58.4	57.5	56.5	55.6	54.6	53.7	52.7	51.8	50.8
70	58.4	57.4	56.5	55.5	54.6	53.6	52.7	51.7	50.8
71	58.4	57.4	56.5	55.5	54.6	53.6	52.7	51.7	50.8
72	58.4	57.4	56.5	55.5	54.5	53.6	52.6	51.7	50.8
73	58.4	57.4	56.4	55.5	54.5	53.6	52.6	51.7	50.7
74	58.3	57.4	56.4	55.5	54.5	53.6	52.6	51.7	50.7
75	58.3	57.4	56.4	55.5	54.5	53.5	52.6	51.6	50.7
76	58.3	57.4	56.4	55.4	54.5	53.5	52.6	51.6	50.7
77	58.3	57.3	56.4	55.4	54.5	53.5	52.6	51.6	50.7
78	58.3	57.3	56.4	55.4	54.5	53.5	52.6	51.6	50.6
79	58.3	57.3	56.4	55.4	54.5	53.5	52.5	51.6	50.6
80	58.3	57.3	56.4	55.4	54.4	53.5	52.5	51.6	50.6
81	58.3	57.3	56.4	55.4	54.4	53.5	52.5	51.6	50.6
82	58.3	57.3	56.3	55.4	54.4	53.5	52.5	51.6	50.6
83	58.3	57.3	56.3	55.4	54.4	53.5	52.5	51.6	50.6
84	58.3	57.3	56.3	55.4	54.4	53.5	52.5	51.5	50.6
85	58.3	57.3	56.3	55.4	54.4	53.5	52.5	51.5	50.6
86	58.2	57.3	56.3	55.4	54.4	53.5	52.5	51.5	50.6
87	58.2	57.3	56.3	55.4	54.4	53.4	52.5	51.5	50.6
88	58.2	57.3	56.3	55.4	54.4	53.4	52.5	51.5	50.6
89	58.2	57.3	56.3	55.4	54.4	53.4	52.5	51.5	50.6
90	58.2	57.3	56.3	55.4	54.4	53.4	52.5	51.5	50.6
91	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6
92	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6
93	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6
94	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6
95	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6

## Joint and Last Survivor Table (2022)

Ages	27	28	29	30	31	32	33	34	35
96	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6
97	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6
98	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6
99	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6
100	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6
101	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6
102	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.6
103	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
104	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
105	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
106	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
107	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
108	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
109	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
110	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
111	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
112	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
113	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
114	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
115	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
116	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
117	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
118	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
119	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5
120+	58.2	57.3	56.3	55.3	54.4	53.4	52.5	51.5	50.5

## Joint and Last Survivor Table (2022)

Ages	36	37	38	39	40	41	42	43	44
0	85.2	85.2	85.2	85.1	85.1	85.1	85.0	85.0	85.0
1	84.3	84.3	84.3	84.2	84.2	84.2	84.1	84.1	84.1
2	83.4	83.3	83.3	83.3	83.2	83.2	83.2	83.1	83.1
3	82.4	82.4	82.3	82.3	82.3	82.2	82.2	82.2	82.2
4	81.5	81.4	81.4	81.4	81.3	81.3	81.3	81.2	81.2
5	80.5	80.5	80.4	80.4	80.4	80.3	80.3	80.3	80.2
6	79.6	79.5	79.5	79.5	79.4	79.4	79.3	79.3	79.3
7	78.7	78.6	78.6	78.5	78.5	78.4	78.4	78.3	78.3
8	77.7	77.7	77.6	77.6	77.5	77.5	77.4	77.4	77.3
9	76.8	76.7	76.7	76.6	76.6	76.5	76.5	76.4	76.4
10	75.9	75.8	75.7	75.7	75.6	75.6	75.5	75.5	75.4
11	75.0	74.9	74.8	74.7	74.7	74.6	74.6	74.5	74.5
12	74.0	74.0	73.9	73.8	73.7	73.7	73.6	73.6	73.5
13	73.1	73.1	73.0	72.9	72.8	72.8	72.7	72.6	72.6
14	72.2	72.1	72.1	72.0	71.9	71.8	71.8	71.7	71.6
15	71.4	71.3	71.2	71.1	71.0	70.9	70.8	70.8	70.7
16	70.5	70.4	70.3	70.2	70.1	70.0	69.9	69.8	69.8
17	69.6	69.5	69.4	69.3	69.2	69.1	69.0	68.9	68.8
18	68.7	68.6	68.5	68.4	68.3	68.2	68.1	68.0	67.9
19	67.9	67.7	67.6	67.5	67.4	67.3	67.2	67.1	67.0
20	67.1	66.9	66.8	66.6	66.5	66.4	66.3	66.2	66.1
21	66.2	66.1	65.9	65.8	65.6	65.5	65.4	65.3	65.2
22	65.4	65.2	65.1	64.9	64.8	64.6	64.5	64.4	64.3
23	64.6	64.4	64.2	64.1	63.9	63.8	63.6	63.5	63.4
24	63.8	63.6	63.4	63.3	63.1	62.9	62.8	62.7	62.5
25	63.1	62.8	62.6	62.4	62.3	62.1	61.9	61.8	61.7
26	62.3	62.1	61.9	61.6	61.5	61.3	61.1	61.0	60.8
27	61.6	61.3	61.1	60.9	60.7	60.5	60.3	60.1	60.0
28	60.9	60.6	60.3	60.1	59.9	59.7	59.5	59.3	59.1
29	60.2	59.9	59.6	59.4	59.1	58.9	58.7	58.5	58.3
30	59.5	59.2	58.9	58.6	58.4	58.1	57.9	57.7	57.5
31	58.9	58.6	58.2	57.9	57.6	57.4	57.1	56.9	56.7

## Joint and Last Survivor Table (2022)

Ages	36	37	38	39	40	41	42	43	44
32	58.3	57.9	57.6	57.2	56.9	56.7	56.4	56.2	55.9
33	57.7	57.3	56.9	56.6	56.3	56.0	55.7	55.4	55.2
34	57.2	56.7	56.3	55.9	55.6	55.3	55.0	54.7	54.4
35	56.6	56.2	55.7	55.3	55.0	54.6	54.3	54.0	53.7
36	56.1	55.6	55.2	54.7	54.3	54.0	53.6	53.3	53.0
37	55.6	55.1	54.6	54.2	53.8	53.4	53.0	52.6	52.3
38	55.2	54.6	54.1	53.6	53.2	52.8	52.4	52.0	51.6
39	54.7	54.2	53.6	53.1	52.7	52.2	51.8	51.4	51.0
40	54.3	53.8	53.2	52.7	52.2	51.7	51.2	50.8	50.4
41	54.0	53.4	52.8	52.2	51.7	51.2	50.7	50.2	49.8
42	53.6	53.0	52.4	51.8	51.2	50.7	50.2	49.7	49.2
43	53.3	52.6	52.0	51.4	50.8	50.2	49.7	49.2	48.7
44	53.0	52.3	51.6	51.0	50.4	49.8	49.2	48.7	48.2
45	52.7	52.0	51.3	50.7	50.0	49.4	48.8	48.3	47.7
46	52.4	51.7	51.0	50.3	49.7	49.0	48.4	47.8	47.3
47	52.2	51.5	50.7	50.0	49.3	48.7	48.0	47.4	46.8
48	52.0	51.2	50.5	49.7	49.0	48.4	47.7	47.1	46.4
49	51.8	51.0	50.2	49.5	48.8	48.1	47.4	46.7	46.1
50	51.6	50.8	50.0	49.2	48.5	47.8	47.1	46.4	45.7
51	51.4	50.6	49.8	49.0	48.3	47.5	46.8	46.1	45.4
52	51.3	50.4	49.6	48.8	48.0	47.3	46.5	45.8	45.1
53	51.1	50.3	49.5	48.6	47.8	47.1	46.3	45.6	44.8
54	51.0	50.1	49.3	48.5	47.7	46.9	46.1	45.3	44.6
55	50.9	50.0	49.1	48.3	47.5	46.7	45.9	45.1	44.3
56	50.7	49.9	49.0	48.2	47.3	46.5	45.7	44.9	44.1
57	50.6	49.8	48.9	48.0	47.2	46.3	45.5	44.7	43.9
58	50.5	49.7	48.8	47.9	47.1	46.2	45.4	44.5	43.7
59	50.5	49.6	48.7	47.8	46.9	46.1	45.2	44.4	43.6
60	50.4	49.5	48.6	47.7	46.8	46.0	45.1	44.3	43.4
61	50.3	49.4	48.5	47.6	46.7	45.8	45.0	44.1	43.3
62	50.2	49.3	48.4	47.5	46.6	45.7	44.9	44.0	43.1
63	50.2	49.3	48.3	47.4	46.5	45.7	44.8	43.9	43.0

## Joint and Last Survivor Table (2022)

Ages	36	37	38	39	40	41	42	43	44
64	50.1	49.2	48.3	47.4	46.5	45.6	44.7	43.8	42.9
65	50.1	49.1	48.2	47.3	46.4	45.5	44.6	43.7	42.8
66	50.0	49.1	48.2	47.2	46.3	45.4	44.5	43.6	42.7
67	50.0	49.0	48.1	47.2	46.3	45.4	44.4	43.5	42.6
68	49.9	49.0	48.1	47.1	46.2	45.3	44.4	43.5	42.6
69	49.9	49.0	48.0	47.1	46.2	45.2	44.3	43.4	42.5
70	49.9	48.9	48.0	47.0	46.1	45.2	44.3	43.3	42.4
71	49.8	48.9	47.9	47.0	46.1	45.1	44.2	43.3	42.4
72	49.8	48.9	47.9	47.0	46.0	45.1	44.2	43.2	42.3
73	49.8	48.8	47.9	46.9	46.0	45.1	44.1	43.2	42.3
74	49.8	48.8	47.9	46.9	46.0	45.0	44.1	43.2	42.2
75	49.7	48.8	47.8	46.9	45.9	45.0	44.1	43.1	42.2
76	49.7	48.8	47.8	46.9	45.9	45.0	44.0	43.1	42.2
77	49.7	48.8	47.8	46.9	45.9	45.0	44.0	43.1	42.1
78	49.7	48.7	47.8	46.8	45.9	44.9	44.0	43.0	42.1
79	49.7	48.7	47.8	46.8	45.9	44.9	44.0	43.0	42.1
80	49.7	48.7	47.8	46.8	45.9	44.9	43.9	43.0	42.1
81	49.7	48.7	47.7	46.8	45.8	44.9	43.9	43.0	42.0
82	49.7	48.7	47.7	46.8	45.8	44.9	43.9	43.0	42.0
83	49.6	48.7	47.7	46.8	45.8	44.9	43.9	43.0	42.0
84	49.6	48.7	47.7	46.8	45.8	44.9	43.9	42.9	42.0
85	49.6	48.7	47.7	46.8	45.8	44.8	43.9	42.9	42.0
86	49.6	48.7	47.7	46.7	45.8	44.8	43.9	42.9	42.0
87	49.6	48.7	47.7	46.7	45.8	44.8	43.9	42.9	42.0
88	49.6	48.7	47.7	46.7	45.8	44.8	43.9	42.9	42.0
89	49.6	48.7	47.7	46.7	45.8	44.8	43.9	42.9	41.9
90	49.6	48.6	47.7	46.7	45.8	44.8	43.9	42.9	41.9
91	49.6	48.6	47.7	46.7	45.8	44.8	43.9	42.9	41.9
92	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
93	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
94	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
95	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9

## Joint and Last Survivor Table (2022)

Ages	36	37	38	39	40	41	42	43	44
96	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
97	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
98	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
99	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
100	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
101	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
102	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
103	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
104	49.6	48.6	47.7	46.7	45.8	44.8	43.8	42.9	41.9
105	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
106	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
107	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
108	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
109	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
110	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
111	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
112	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
113	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
114	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
115	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
116	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
117	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
118	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
119	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9
120+	49.6	48.6	47.7	46.7	45.7	44.8	43.8	42.9	41.9

## Joint and Last Survivor Table (2022)

Ages	45	46	47	48	49	50	51	52	53
0	85.0	84.9	84.9	84.9	84.9	84.9	84.8	84.8	84.8
1	84.1	84.0	84.0	84.0	84.0	84.0	84.0	83.9	83.9
2	83.1	83.1	83.1	83.0	83.0	83.0	83.0	83.0	83.0
3	82.1	82.1	82.1	82.1	82.1	82.0	82.0	82.0	82.0
4	81.2	81.1	81.1	81.1	81.1	81.1	81.0	81.0	81.0
5	80.2	80.2	80.2	80.1	80.1	80.1	80.1	80.1	80.0
6	79.2	79.2	79.2	79.2	79.1	79.1	79.1	79.1	79.1
7	78.3	78.2	78.2	78.2	78.2	78.1	78.1	78.1	78.1
8	77.3	77.3	77.3	77.2	77.2	77.2	77.2	77.1	77.1
9	76.4	76.3	76.3	76.3	76.2	76.2	76.2	76.2	76.1
10	75.4	75.4	75.3	75.3	75.3	75.2	75.2	75.2	75.2
11	74.4	74.4	74.4	74.3	74.3	74.3	74.2	74.2	74.2
12	73.5	73.4	73.4	73.4	73.3	73.3	73.3	73.2	73.2
13	72.5	72.5	72.4	72.4	72.4	72.3	72.3	72.3	72.3
14	71.6	71.5	71.5	71.5	71.4	71.4	71.3	71.3	71.3
15	70.6	70.6	70.5	70.5	70.5	70.4	70.4	70.4	70.3
16	69.7	69.7	69.6	69.6	69.5	69.5	69.4	69.4	69.4
17	68.8	68.7	68.7	68.6	68.6	68.5	68.5	68.4	68.4
18	67.9	67.8	67.7	67.7	67.6	67.6	67.5	67.5	67.4
19	66.9	66.9	66.8	66.7	66.7	66.6	66.6	66.5	66.5
20	66.0	65.9	65.9	65.8	65.7	65.7	65.6	65.6	65.5
21	65.1	65.0	65.0	64.9	64.8	64.8	64.7	64.7	64.6
22	64.2	64.1	64.0	64.0	63.9	63.8	63.8	63.7	63.7
23	63.3	63.2	63.1	63.0	63.0	62.9	62.8	62.8	62.7
24	62.4	62.3	62.2	62.1	62.1	62.0	61.9	61.9	61.8
25	61.5	61.4	61.3	61.2	61.2	61.1	61.0	60.9	60.9
26	60.7	60.6	60.5	60.3	60.3	60.2	60.1	60.0	59.9
27	59.8	59.7	59.6	59.5	59.4	59.3	59.2	59.1	59.0
28	59.0	58.8	58.7	58.6	58.5	58.4	58.3	58.2	58.1
29	58.1	58.0	57.9	57.7	57.6	57.5	57.4	57.3	57.2
30	57.3	57.2	57.0	56.9	56.7	56.6	56.5	56.4	56.3
31	56.5	56.3	56.2	56.0	55.9	55.8	55.6	55.5	55.4

## Joint and Last Survivor Table (2022)

Ages	45	46	47	48	49	50	51	52	53
32	55.7	55.5	55.4	55.2	55.0	54.9	54.8	54.7	54.6
33	54.9	54.7	54.5	54.4	54.2	54.1	53.9	53.8	53.7
34	54.2	54.0	53.7	53.6	53.4	53.2	53.1	52.9	52.8
35	53.4	53.2	53.0	52.8	52.6	52.4	52.2	52.1	52.0
36	52.7	52.4	52.2	52.0	51.8	51.6	51.4	51.3	51.1
37	52.0	51.7	51.5	51.2	51.0	50.8	50.6	50.4	50.3
38	51.3	51.0	50.7	50.5	50.2	50.0	49.8	49.6	49.5
39	50.7	50.3	50.0	49.7	49.5	49.2	49.0	48.8	48.6
40	50.0	49.7	49.3	49.0	48.8	48.5	48.3	48.0	47.8
41	49.4	49.0	48.7	48.4	48.1	47.8	47.5	47.3	47.1
42	48.8	48.4	48.0	47.7	47.4	47.1	46.8	46.5	46.3
43	48.3	47.8	47.4	47.1	46.7	46.4	46.1	45.8	45.6
44	47.7	47.3	46.8	46.4	46.1	45.7	45.4	45.1	44.8
45	47.2	46.7	46.3	45.9	45.5	45.1	44.7	44.4	44.1
46	46.7	46.2	45.7	45.3	44.9	44.5	44.1	43.8	43.4
47	46.3	45.7	45.2	44.8	44.3	43.9	43.5	43.1	42.8
48	45.9	45.3	44.8	44.3	43.8	43.3	42.9	42.5	42.1
49	45.5	44.9	44.3	43.8	43.3	42.8	42.3	41.9	41.5
50	45.1	44.5	43.9	43.3	42.8	42.3	41.8	41.4	40.9
51	44.7	44.1	43.5	42.9	42.3	41.8	41.3	40.8	40.4
52	44.4	43.8	43.1	42.5	41.9	41.4	40.8	40.3	39.9
53	44.1	43.4	42.8	42.1	41.5	40.9	40.4	39.9	39.4
54	43.8	43.1	42.5	41.8	41.2	40.6	40.0	39.4	38.9
55	43.6	42.9	42.2	41.5	40.8	40.2	39.6	39.0	38.4
56	43.4	42.6	41.9	41.2	40.5	39.8	39.2	38.6	38.0
57	43.1	42.4	41.6	40.9	40.2	39.5	38.9	38.2	37.6
58	42.9	42.2	41.4	40.7	39.9	39.2	38.6	37.9	37.3
59	42.8	42.0	41.2	40.4	39.7	39.0	38.3	37.6	36.9
60	42.6	41.8	41.0	40.2	39.5	38.7	38.0	37.3	36.6
61	42.4	41.6	40.8	40.0	39.2	38.5	37.7	37.0	36.3
62	42.3	41.5	40.6	39.8	39.0	38.3	37.5	36.8	36.1
63	42.2	41.3	40.5	39.7	38.9	38.1	37.3	36.6	35.8

## Joint and Last Survivor Table (2022)

Ages	45	46	47	48	49	50	51	52	53
64	42.1	41.2	40.4	39.5	38.7	37.9	37.1	36.3	35.6
65	41.9	41.1	40.2	39.4	38.6	37.7	36.9	36.2	35.4
66	41.8	41.0	40.1	39.3	38.4	37.6	36.8	36.0	35.2
67	41.8	40.9	40.0	39.1	38.3	37.5	36.6	35.8	35.0
68	41.7	40.8	39.9	39.0	38.2	37.3	36.5	35.7	34.9
69	41.6	40.7	39.8	38.9	38.1	37.2	36.4	35.5	34.7
70	41.5	40.6	39.7	38.8	38.0	37.1	36.2	35.4	34.6
71	41.5	40.6	39.7	38.8	37.9	37.0	36.1	35.3	34.5
72	41.4	40.5	39.6	38.7	37.8	36.9	36.0	35.2	34.3
73	41.4	40.4	39.5	38.6	37.7	36.8	36.0	35.1	34.2
74	41.3	40.4	39.5	38.6	37.7	36.8	35.9	35.0	34.1
75	41.3	40.3	39.4	38.5	37.6	36.7	35.8	34.9	34.1
76	41.2	40.3	39.4	38.5	37.5	36.6	35.7	34.9	34.0
77	41.2	40.3	39.3	38.4	37.5	36.6	35.7	34.8	33.9
78	41.2	40.2	39.3	38.4	37.5	36.5	35.6	34.7	33.9
79	41.1	40.2	39.3	38.3	37.4	36.5	35.6	34.7	33.8
80	41.1	40.2	39.2	38.3	37.4	36.5	35.5	34.6	33.7
81	41.1	40.1	39.2	38.3	37.3	36.4	35.5	34.6	33.7
82	41.1	40.1	39.2	38.3	37.3	36.4	35.5	34.6	33.7
83	41.1	40.1	39.2	38.2	37.3	36.4	35.4	34.5	33.6
84	41.0	40.1	39.2	38.2	37.3	36.3	35.4	34.5	33.6
85	41.0	40.1	39.1	38.2	37.3	36.3	35.4	34.5	33.6
86	41.0	40.1	39.1	38.2	37.2	36.3	35.4	34.5	33.5
87	41.0	40.1	39.1	38.2	37.2	36.3	35.4	34.4	33.5
88	41.0	40.0	39.1	38.2	37.2	36.3	35.3	34.4	33.5
89	41.0	40.0	39.1	38.1	37.2	36.3	35.3	34.4	33.5
90	41.0	40.0	39.1	38.1	37.2	36.3	35.3	34.4	33.5
91	41.0	40.0	39.1	38.1	37.2	36.2	35.3	34.4	33.5
92	41.0	40.0	39.1	38.1	37.2	36.2	35.3	34.4	33.5
93	41.0	40.0	39.1	38.1	37.2	36.2	35.3	34.4	33.4
94	41.0	40.0	39.1	38.1	37.2	36.2	35.3	34.4	33.4
95	41.0	40.0	39.1	38.1	37.2	36.2	35.3	34.4	33.4

## Joint and Last Survivor Table (2022)

Ages	45	46	47	48	49	50	51	52	53
96	41.0	40.0	39.1	38.1	37.2	36.2	35.3	34.3	33.4
97	41.0	40.0	39.1	38.1	37.2	36.2	35.3	34.3	33.4
98	41.0	40.0	39.1	38.1	37.2	36.2	35.3	34.3	33.4
99	41.0	40.0	39.1	38.1	37.2	36.2	35.3	34.3	33.4
100	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
101	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
102	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
103	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
104	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
105	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
106	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
107	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
108	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
109	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
110	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
111	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
112	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
113	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
114	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
115	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
116	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
117	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
118	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
119	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4
120+	41.0	40.0	39.0	38.1	37.1	36.2	35.3	34.3	33.4

## Joint and Last Survivor Table (2022)

Ages	54	55	56	57	58	59	60	61	62
0	84.8	84.8	84.8	84.8	84.8	84.7	84.7	84.7	84.7
1	83.9	83.9	83.9	83.9	83.9	83.9	83.8	83.8	83.8
2	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
3	82.0	82.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9
4	81.0	81.0	81.0	81.0	80.9	80.9	80.9	80.9	80.9
5	80.0	80.0	80.0	80.0	80.0	80.0	79.9	79.9	79.9
6	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	78.9
7	78.1	78.1	78.0	78.0	78.0	78.0	78.0	78.0	78.0
8	77.1	77.1	77.1	77.0	77.0	77.0	77.0	77.0	77.0
9	76.1	76.1	76.1	76.1	76.1	76.0	76.0	76.0	76.0
10	75.1	75.1	75.1	75.1	75.1	75.1	75.0	75.0	75.0
11	74.2	74.2	74.1	74.1	74.1	74.1	74.1	74.1	74.0
12	73.2	73.2	73.2	73.1	73.1	73.1	73.1	73.1	73.1
13	72.2	72.2	72.2	72.2	72.1	72.1	72.1	72.1	72.1
14	71.3	71.2	71.2	71.2	71.2	71.2	71.1	71.1	71.1
15	70.3	70.3	70.2	70.2	70.2	70.2	70.2	70.1	70.1
16	69.3	69.3	69.3	69.3	69.2	69.2	69.2	69.2	69.2
17	68.4	68.3	68.3	68.3	68.3	68.2	68.2	68.2	68.2
18	67.4	67.4	67.4	67.3	67.3	67.3	67.3	67.2	67.2
19	66.5	66.4	66.4	66.4	66.3	66.3	66.3	66.3	66.2
20	65.5	65.5	65.4	65.4	65.4	65.4	65.3	65.3	65.3
21	64.6	64.5	64.5	64.5	64.4	64.4	64.4	64.3	64.3
22	63.6	63.6	63.5	63.5	63.5	63.4	63.4	63.4	63.4
23	62.7	62.6	62.6	62.5	62.5	62.5	62.4	62.4	62.4
24	61.7	61.7	61.6	61.6	61.6	61.5	61.5	61.5	61.4
25	60.8	60.8	60.7	60.7	60.6	60.6	60.5	60.5	60.5
26	59.9	59.8	59.8	59.7	59.7	59.6	59.6	59.6	59.5
27	59.0	58.9	58.8	58.8	58.7	58.7	58.7	58.6	58.6
28	58.0	58.0	57.9	57.9	57.8	57.8	57.7	57.7	57.6
29	57.1	57.1	57.0	56.9	56.9	56.8	56.8	56.7	56.7
30	56.2	56.2	56.1	56.0	56.0	55.9	55.9	55.8	55.8
31	55.3	55.3	55.2	55.1	55.0	55.0	54.9	54.9	54.8

## Joint and Last Survivor Table (2022)

Ages	54	55	56	57	58	59	60	61	62
32	54.5	54.4	54.3	54.2	54.1	54.1	54.0	54.0	53.9
33	53.6	53.5	53.4	53.3	53.2	53.2	53.1	53.0	53.0
34	52.7	52.6	52.5	52.4	52.3	52.2	52.2	52.1	52.1
35	51.8	51.7	51.6	51.5	51.4	51.3	51.3	51.2	51.1
36	51.0	50.9	50.7	50.6	50.5	50.5	50.4	50.3	50.2
37	50.1	50.0	49.9	49.8	49.7	49.6	49.5	49.4	49.3
38	49.3	49.1	49.0	48.9	48.8	48.7	48.6	48.5	48.4
39	48.5	48.3	48.2	48.0	47.9	47.8	47.7	47.6	47.5
40	47.7	47.5	47.3	47.2	47.1	46.9	46.8	46.7	46.6
41	46.9	46.7	46.5	46.3	46.2	46.1	46.0	45.8	45.7
42	46.1	45.9	45.7	45.5	45.4	45.2	45.1	45.0	44.9
43	45.3	45.1	44.9	44.7	44.5	44.4	44.3	44.1	44.0
44	44.6	44.3	44.1	43.9	43.7	43.6	43.4	43.3	43.1
45	43.8	43.6	43.4	43.1	42.9	42.8	42.6	42.4	42.3
46	43.1	42.9	42.6	42.4	42.2	42.0	41.8	41.6	41.5
47	42.5	42.2	41.9	41.6	41.4	41.2	41.0	40.8	40.6
48	41.8	41.5	41.2	40.9	40.7	40.4	40.2	40.0	39.8
49	41.2	40.8	40.5	40.2	39.9	39.7	39.5	39.2	39.0
50	40.6	40.2	39.8	39.5	39.2	39.0	38.7	38.5	38.3
51	40.0	39.6	39.2	38.9	38.6	38.3	38.0	37.7	37.5
52	39.4	39.0	38.6	38.2	37.9	37.6	37.3	37.0	36.8
53	38.9	38.4	38.0	37.6	37.3	36.9	36.6	36.3	36.1
54	38.4	37.9	37.5	37.1	36.7	36.3	36.0	35.7	35.4
55	37.9	37.4	36.9	36.5	36.1	35.7	35.3	35.0	34.7
56	37.5	36.9	36.5	36.0	35.5	35.1	34.8	34.4	34.1
57	37.1	36.5	36.0	35.5	35.0	34.6	34.2	33.8	33.4
58	36.7	36.1	35.5	35.0	34.5	34.1	33.6	33.2	32.8
59	36.3	35.7	35.1	34.6	34.1	33.6	33.1	32.7	32.3
60	36.0	35.3	34.8	34.2	33.6	33.1	32.6	32.2	31.7
61	35.7	35.0	34.4	33.8	33.2	32.7	32.2	31.7	31.2
62	35.4	34.7	34.1	33.4	32.8	32.3	31.7	31.2	30.8
63	35.1	34.4	33.8	33.1	32.5	31.9	31.3	30.8	30.3

## Joint and Last Survivor Table (2022)

Ages	54	55	56	57	58	59	60	61	62
64	34.9	34.2	33.5	32.8	32.2	31.5	31.0	30.4	29.9
65	34.6	33.9	33.2	32.5	31.9	31.2	30.6	30.0	29.5
66	34.4	33.7	33.0	32.3	31.6	30.9	30.3	29.7	29.1
67	34.2	33.5	32.7	32.0	31.3	30.6	30.0	29.4	28.7
68	34.1	33.3	32.5	31.8	31.1	30.4	29.7	29.1	28.4
69	33.9	33.1	32.3	31.6	30.9	30.1	29.4	28.8	28.1
70	33.8	33.0	32.2	31.4	30.7	29.9	29.2	28.5	27.9
71	33.6	32.8	32.0	31.2	30.5	29.7	29.0	28.3	27.6
72	33.5	32.7	31.9	31.1	30.3	29.5	28.8	28.1	27.4
73	33.4	32.6	31.7	30.9	30.1	29.4	28.6	27.9	27.2
74	33.3	32.4	31.6	30.8	30.0	29.2	28.4	27.7	27.0
75	33.2	32.4	31.5	30.7	29.9	29.1	28.3	27.5	26.8
76	33.1	32.3	31.4	30.6	29.8	29.0	28.2	27.4	26.6
77	33.0	32.2	31.3	30.5	29.7	28.8	28.0	27.3	26.5
78	33.0	32.1	31.2	30.4	29.6	28.7	27.9	27.1	26.4
79	32.9	32.0	31.2	30.3	29.5	28.7	27.8	27.0	26.2
80	32.9	32.0	31.1	30.3	29.4	28.6	27.8	26.9	26.1
81	32.8	31.9	31.1	30.2	29.3	28.5	27.7	26.9	26.0
82	32.8	31.9	31.0	30.1	29.3	28.4	27.6	26.8	26.0
83	32.7	31.8	31.0	30.1	29.2	28.4	27.5	26.7	25.9
84	32.7	31.8	30.9	30.0	29.2	28.3	27.5	26.7	25.8
85	32.7	31.8	30.9	30.0	29.1	28.3	27.4	26.6	25.8
86	32.6	31.7	30.9	30.0	29.1	28.2	27.4	26.6	25.7
87	32.6	31.7	30.8	29.9	29.1	28.2	27.4	26.5	25.7
88	32.6	31.7	30.8	29.9	29.0	28.2	27.3	26.5	25.6
89	32.6	31.7	30.8	29.9	29.0	28.2	27.3	26.4	25.6
90	32.6	31.7	30.8	29.9	29.0	28.1	27.3	26.4	25.6
91	32.5	31.6	30.7	29.9	29.0	28.1	27.3	26.4	25.6
92	32.5	31.6	30.7	29.8	29.0	28.1	27.2	26.4	25.5
93	32.5	31.6	30.7	29.8	29.0	28.1	27.2	26.4	25.5
94	32.5	31.6	30.7	29.8	28.9	28.1	27.2	26.3	25.5
95	32.5	31.6	30.7	29.8	28.9	28.1	27.2	26.3	25.5

## Joint and Last Survivor Table (2022)

Ages	54	55	56	57	58	59	60	61	62
96	32.5	31.6	30.7	29.8	28.9	28.0	27.2	26.3	25.5
97	32.5	31.6	30.7	29.8	28.9	28.0	27.2	26.3	25.5
98	32.5	31.6	30.7	29.8	28.9	28.0	27.2	26.3	25.5
99	32.5	31.6	30.7	29.8	28.9	28.0	27.2	26.3	25.4
100	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
101	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
102	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
103	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
104	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
105	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
106	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
107	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
108	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
109	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
110	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
111	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
112	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
113	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
114	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
115	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
116	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
117	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
118	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.3	25.4
119	32.5	31.6	30.7	29.8	28.9	28.0	27.1	26.2	25.4
120+	32.5	31.6	30.6	29.8	28.9	28.0	27.1	26.2	25.4

## Joint and Last Survivor Table (2022)

Ages	63	64	65	66	67	68	69	70	71
0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
1	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
2	82.9	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
3	81.9	81.9	81.9	81.9	81.9	81.8	81.8	81.8	81.8
4	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
5	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
7	78.0	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
8	77.0	77.0	77.0	76.9	76.9	76.9	76.9	76.9	76.9
9	76.0	76.0	76.0	76.0	76.0	75.9	75.9	75.9	75.9
10	75.0	75.0	75.0	75.0	75.0	75.0	75.0	74.9	74.9
11	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
12	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
13	72.1	72.1	72.0	72.0	72.0	72.0	72.0	72.0	72.0
14	71.1	71.1	71.1	71.1	71.0	71.0	71.0	71.0	71.0
15	70.1	70.1	70.1	70.1	70.1	70.1	70.0	70.0	70.0
16	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.0
17	68.2	68.2	68.1	68.1	68.1	68.1	68.1	68.1	68.1
18	67.2	67.2	67.2	67.2	67.1	67.1	67.1	67.1	67.1
19	66.2	66.2	66.2	66.2	66.2	66.2	66.1	66.1	66.1
20	65.3	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.1
21	64.3	64.3	64.3	64.2	64.2	64.2	64.2	64.2	64.2
22	63.3	63.3	63.3	63.3	63.3	63.2	63.2	63.2	63.2
23	62.4	62.3	62.3	62.3	62.3	62.3	62.3	62.2	62.2
24	61.4	61.4	61.4	61.3	61.3	61.3	61.3	61.3	61.3
25	60.5	60.4	60.4	60.4	60.4	60.3	60.3	60.3	60.3
26	59.5	59.5	59.5	59.4	59.4	59.4	59.4	59.4	59.3
27	58.6	58.5	58.5	58.5	58.5	58.4	58.4	58.4	58.4
28	57.6	57.6	57.5	57.5	57.5	57.5	57.5	57.4	57.4
29	56.7	56.6	56.6	56.6	56.5	56.5	56.5	56.5	56.5
30	55.7	55.7	55.7	55.6	55.6	55.6	55.6	55.5	55.5
31	54.8	54.8	54.7	54.7	54.7	54.6	54.6	54.6	54.6

## Joint and Last Survivor Table (2022)

Ages	63	64	65	66	67	68	69	70	71
32	53.9	53.8	53.8	53.7	53.7	53.7	53.7	53.6	53.6
33	52.9	52.9	52.8	52.8	52.8	52.7	52.7	52.7	52.7
34	52.0	52.0	51.9	51.9	51.8	51.8	51.8	51.7	51.7
35	51.1	51.0	51.0	50.9	50.9	50.9	50.8	50.8	50.8
36	50.2	50.1	50.1	50.0	50.0	49.9	49.9	49.9	49.8
37	49.3	49.2	49.1	49.1	49.0	49.0	49.0	48.9	48.9
38	48.3	48.3	48.2	48.2	48.1	48.1	48.0	48.0	47.9
39	47.4	47.4	47.3	47.2	47.2	47.1	47.1	47.0	47.0
40	46.5	46.5	46.4	46.3	46.3	46.2	46.2	46.1	46.1
41	45.7	45.6	45.5	45.4	45.4	45.3	45.2	45.2	45.1
42	44.8	44.7	44.6	44.5	44.4	44.4	44.3	44.3	44.2
43	43.9	43.8	43.7	43.6	43.5	43.5	43.4	43.3	43.3
44	43.0	42.9	42.8	42.7	42.6	42.6	42.5	42.4	42.4
45	42.2	42.1	41.9	41.8	41.8	41.7	41.6	41.5	41.5
46	41.3	41.2	41.1	41.0	40.9	40.8	40.7	40.6	40.6
47	40.5	40.4	40.2	40.1	40.0	39.9	39.8	39.7	39.7
48	39.7	39.5	39.4	39.3	39.1	39.0	38.9	38.8	38.8
49	38.9	38.7	38.6	38.4	38.3	38.2	38.1	38.0	37.9
50	38.1	37.9	37.7	37.6	37.5	37.3	37.2	37.1	37.0
51	37.3	37.1	36.9	36.8	36.6	36.5	36.4	36.2	36.1
52	36.6	36.3	36.2	36.0	35.8	35.7	35.5	35.4	35.3
53	35.8	35.6	35.4	35.2	35.0	34.9	34.7	34.6	34.5
54	35.1	34.9	34.6	34.4	34.2	34.1	33.9	33.8	33.6
55	34.4	34.2	33.9	33.7	33.5	33.3	33.1	33.0	32.8
56	33.8	33.5	33.2	33.0	32.7	32.5	32.3	32.2	32.0
57	33.1	32.8	32.5	32.3	32.0	31.8	31.6	31.4	31.2
58	32.5	32.2	31.9	31.6	31.3	31.1	30.9	30.7	30.5
59	31.9	31.5	31.2	30.9	30.6	30.4	30.1	29.9	29.7
60	31.3	31.0	30.6	30.3	30.0	29.7	29.4	29.2	29.0
61	30.8	30.4	30.0	29.7	29.4	29.1	28.8	28.5	28.3
62	30.3	29.9	29.5	29.1	28.7	28.4	28.1	27.9	27.6
63	29.8	29.4	28.9	28.5	28.2	27.8	27.5	27.2	26.9

## Joint and Last Survivor Table (2022)

Ages	63	64	65	66	67	68	69	70	71
64	29.4	28.9	28.4	28.0	27.6	27.2	26.9	26.6	26.3
65	28.9	28.4	28.0	27.5	27.1	26.7	26.3	26.0	25.7
66	28.5	28.0	27.5	27.0	26.6	26.2	25.8	25.4	25.1
67	28.2	27.6	27.1	26.6	26.1	25.7	25.3	24.9	24.5
68	27.8	27.2	26.7	26.2	25.7	25.2	24.8	24.3	24.0
69	27.5	26.9	26.3	25.8	25.3	24.8	24.3	23.9	23.4
70	27.2	26.6	26.0	25.4	24.9	24.3	23.9	23.4	22.9
71	26.9	26.3	25.7	25.1	24.5	24.0	23.4	22.9	22.5
72	26.7	26.0	25.4	24.8	24.2	23.6	23.1	22.5	22.0
73	26.5	25.8	25.1	24.5	23.9	23.3	22.7	22.2	21.6
74	26.2	25.5	24.9	24.2	23.6	23.0	22.4	21.8	21.3
75	26.1	25.3	24.6	24.0	23.3	22.7	22.1	21.5	20.9
76	25.9	25.2	24.4	23.7	23.1	22.4	21.8	21.2	20.6
77	25.7	25.0	24.3	23.5	22.9	22.2	21.5	20.9	20.3
78	25.6	24.8	24.1	23.4	22.7	22.0	21.3	20.6	20.0
79	25.5	24.7	23.9	23.2	22.5	21.8	21.1	20.4	19.8
80	25.3	24.6	23.8	23.1	22.3	21.6	20.9	20.2	19.6
81	25.2	24.5	23.7	22.9	22.2	21.5	20.7	20.0	19.4
82	25.2	24.4	23.6	22.8	22.1	21.3	20.6	19.9	19.2
83	25.1	24.3	23.5	22.7	22.0	21.2	20.5	19.7	19.0
84	25.0	24.2	23.4	22.6	21.9	21.1	20.4	19.6	18.9
85	25.0	24.1	23.3	22.6	21.8	21.0	20.3	19.5	18.8
86	24.9	24.1	23.3	22.5	21.7	20.9	20.2	19.4	18.7
87	24.9	24.0	23.2	22.4	21.6	20.9	20.1	19.3	18.6
88	24.8	24.0	23.2	22.4	21.6	20.8	20.0	19.2	18.5
89	24.8	24.0	23.1	22.3	21.5	20.7	20.0	19.2	18.4
90	24.7	23.9	23.1	22.3	21.5	20.7	19.9	19.1	18.4
91	24.7	23.9	23.1	22.3	21.5	20.7	19.9	19.1	18.3
92	24.7	23.9	23.0	22.2	21.4	20.6	19.8	19.0	18.3
93	24.7	23.8	23.0	22.2	21.4	20.6	19.8	19.0	18.2
94	24.7	23.8	23.0	22.2	21.4	20.6	19.8	19.0	18.2
95	24.6	23.8	23.0	22.2	21.4	20.6	19.7	18.9	18.2

## Joint and Last Survivor Table (2022)

Ages	63	64	65	66	67	68	69	70	71
96	24.6	23.8	23.0	22.2	21.3	20.5	19.7	18.9	18.1
97	24.6	23.8	23.0	22.1	21.3	20.5	19.7	18.9	18.1
98	24.6	23.8	22.9	22.1	21.3	20.5	19.7	18.9	18.1
99	24.6	23.8	22.9	22.1	21.3	20.5	19.7	18.9	18.1
100	24.6	23.8	22.9	22.1	21.3	20.5	19.7	18.9	18.1
101	24.6	23.8	22.9	22.1	21.3	20.5	19.7	18.9	18.1
102	24.6	23.7	22.9	22.1	21.3	20.5	19.7	18.8	18.0
103	24.6	23.7	22.9	22.1	21.3	20.5	19.6	18.8	18.0
104	24.6	23.7	22.9	22.1	21.3	20.5	19.6	18.8	18.0
105	24.6	23.7	22.9	22.1	21.3	20.5	19.6	18.8	18.0
106	24.6	23.7	22.9	22.1	21.3	20.5	19.6	18.8	18.0
107	24.6	23.7	22.9	22.1	21.3	20.5	19.6	18.8	18.0
108	24.6	23.7	22.9	22.1	21.3	20.5	19.6	18.8	18.0
109	24.6	23.7	22.9	22.1	21.3	20.4	19.6	18.8	18.0
110	24.6	23.7	22.9	22.1	21.3	20.4	19.6	18.8	18.0
111	24.6	23.7	22.9	22.1	21.3	20.4	19.6	18.8	18.0
112	24.6	23.7	22.9	22.1	21.3	20.4	19.6	18.8	18.0
113	24.6	23.7	22.9	22.1	21.3	20.4	19.6	18.8	18.0
114	24.6	23.7	22.9	22.1	21.3	20.4	19.6	18.8	18.0
115	24.6	23.7	22.9	22.1	21.3	20.4	19.6	18.8	18.0
116	24.6	23.7	22.9	22.1	21.3	20.4	19.6	18.8	18.0
117	24.6	23.7	22.9	22.1	21.2	20.4	19.6	18.8	18.0
118	24.5	23.7	22.9	22.1	21.2	20.4	19.6	18.8	18.0
119	24.5	23.7	22.9	22.1	21.2	20.4	19.6	18.8	18.0
120+	24.5	23.7	22.9	22.0	21.2	20.4	19.6	18.8	18.0

## Joint and Last Survivor Table (2022)

Ages	72	73	74	75	76	77	78	79	80
0	84.7	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
1	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
2	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
3	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
4	80.9	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
5	79.9	79.9	79.9	79.9	79.9	79.8	79.8	79.8	79.8
6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
10	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
11	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
12	73.0	73.0	73.0	72.9	72.9	72.9	72.9	72.9	72.9
13	72.0	72.0	72.0	72.0	72.0	72.0	71.9	71.9	71.9
14	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
15	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
16	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
17	68.1	68.1	68.0	68.0	68.0	68.0	68.0	68.0	68.0
18	67.1	67.1	67.1	67.1	67.1	67.0	67.0	67.0	67.0
19	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
20	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
21	64.2	64.2	64.1	64.1	64.1	64.1	64.1	64.1	64.1
22	63.2	63.2	63.2	63.2	63.2	63.1	63.1	63.1	63.1
23	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.1
24	61.3	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
25	60.3	60.3	60.3	60.3	60.2	60.2	60.2	60.2	60.2
26	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.2
27	58.4	58.4	58.3	58.3	58.3	58.3	58.3	58.3	58.3
28	57.4	57.4	57.4	57.4	57.4	57.3	57.3	57.3	57.3
29	56.5	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
30	55.5	55.5	55.5	55.5	55.4	55.4	55.4	55.4	55.4
31	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.4

## Joint and Last Survivor Table (2022)

Ages	72	73	74	75	76	77	78	79	80
32	53.6	53.6	53.6	53.5	53.5	53.5	53.5	53.5	53.5
33	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.5	52.5
34	51.7	51.7	51.7	51.6	51.6	51.6	51.6	51.6	51.6
35	50.8	50.7	50.7	50.7	50.7	50.7	50.6	50.6	50.6
36	49.8	49.8	49.8	49.7	49.7	49.7	49.7	49.7	49.7
37	48.9	48.8	48.8	48.8	48.8	48.8	48.7	48.7	48.7
38	47.9	47.9	47.9	47.8	47.8	47.8	47.8	47.8	47.8
39	47.0	46.9	46.9	46.9	46.9	46.9	46.8	46.8	46.8
40	46.0	46.0	46.0	45.9	45.9	45.9	45.9	45.9	45.9
41	45.1	45.1	45.0	45.0	45.0	45.0	44.9	44.9	44.9
42	44.2	44.1	44.1	44.1	44.0	44.0	44.0	44.0	43.9
43	43.2	43.2	43.2	43.1	43.1	43.1	43.0	43.0	43.0
44	42.3	42.3	42.2	42.2	42.2	42.1	42.1	42.1	42.1
45	41.4	41.4	41.3	41.3	41.2	41.2	41.2	41.1	41.1
46	40.5	40.4	40.4	40.3	40.3	40.3	40.2	40.2	40.2
47	39.6	39.5	39.5	39.4	39.4	39.3	39.3	39.3	39.2
48	38.7	38.6	38.6	38.5	38.5	38.4	38.4	38.3	38.3
49	37.8	37.7	37.7	37.6	37.5	37.5	37.5	37.4	37.4
50	36.9	36.8	36.8	36.7	36.6	36.6	36.5	36.5	36.5
51	36.0	36.0	35.9	35.8	35.7	35.7	35.6	35.6	35.5
52	35.2	35.1	35.0	34.9	34.9	34.8	34.7	34.7	34.6
53	34.3	34.2	34.1	34.1	34.0	33.9	33.9	33.8	33.7
54	33.5	33.4	33.3	33.2	33.1	33.0	33.0	32.9	32.9
55	32.7	32.6	32.4	32.4	32.3	32.2	32.1	32.0	32.0
56	31.9	31.7	31.6	31.5	31.4	31.3	31.2	31.2	31.1
57	31.1	30.9	30.8	30.7	30.6	30.5	30.4	30.3	30.3
58	30.3	30.1	30.0	29.9	29.8	29.7	29.6	29.5	29.4
59	29.5	29.4	29.2	29.1	29.0	28.8	28.7	28.7	28.6
60	28.8	28.6	28.4	28.3	28.2	28.0	27.9	27.8	27.8
61	28.1	27.9	27.7	27.5	27.4	27.3	27.1	27.0	26.9
62	27.4	27.2	27.0	26.8	26.6	26.5	26.4	26.2	26.1
63	26.7	26.5	26.2	26.1	25.9	25.7	25.6	25.5	25.3

## Joint and Last Survivor Table (2022)

Ages	72	73	74	75	76	77	78	79	80
64	26.0	25.8	25.5	25.3	25.2	25.0	24.8	24.7	24.6
65	25.4	25.1	24.9	24.6	24.4	24.3	24.1	23.9	23.8
66	24.8	24.5	24.2	24.0	23.7	23.5	23.4	23.2	23.1
67	24.2	23.9	23.6	23.3	23.1	22.9	22.7	22.5	22.3
68	23.6	23.3	23.0	22.7	22.4	22.2	22.0	21.8	21.6
69	23.1	22.7	22.4	22.1	21.8	21.5	21.3	21.1	20.9
70	22.5	22.2	21.8	21.5	21.2	20.9	20.6	20.4	20.2
71	22.0	21.6	21.3	20.9	20.6	20.3	20.0	19.8	19.6
72	21.6	21.1	20.7	20.4	20.0	19.7	19.4	19.2	18.9
73	21.1	20.7	20.3	19.9	19.5	19.1	18.8	18.6	18.3
74	20.7	20.3	19.8	19.4	19.0	18.6	18.3	18.0	17.7
75	20.4	19.9	19.4	18.9	18.5	18.1	17.8	17.4	17.1
76	20.0	19.5	19.0	18.5	18.1	17.7	17.3	16.9	16.6
77	19.7	19.1	18.6	18.1	17.7	17.2	16.8	16.4	16.1
78	19.4	18.8	18.3	17.8	17.3	16.8	16.4	16.0	15.6
79	19.2	18.6	18.0	17.4	16.9	16.4	16.0	15.6	15.2
80	18.9	18.3	17.7	17.1	16.6	16.1	15.6	15.2	14.7
81	18.7	18.1	17.4	16.9	16.3	15.8	15.3	14.8	14.4
82	18.5	17.9	17.2	16.6	16.0	15.5	15.0	14.5	14.0
83	18.3	17.7	17.0	16.4	15.8	15.2	14.7	14.2	13.7
84	18.2	17.5	16.8	16.2	15.6	15.0	14.4	13.9	13.4
85	18.1	17.4	16.7	16.0	15.4	14.8	14.2	13.6	13.1
86	17.9	17.2	16.5	15.9	15.2	14.6	14.0	13.4	12.9
87	17.8	17.1	16.4	15.7	15.1	14.4	13.8	13.2	12.7
88	17.7	17.0	16.3	15.6	14.9	14.3	13.7	13.1	12.5
89	17.7	16.9	16.2	15.5	14.8	14.2	13.5	12.9	12.3
90	17.6	16.9	16.1	15.4	14.7	14.1	13.4	12.8	12.2
91	17.5	16.8	16.1	15.3	14.6	14.0	13.3	12.7	12.1
92	17.5	16.7	16.0	15.3	14.6	13.9	13.2	12.6	11.9
93	17.4	16.7	15.9	15.2	14.5	13.8	13.1	12.5	11.9
94	17.4	16.6	15.9	15.2	14.4	13.7	13.1	12.4	11.8
95	17.4	16.6	15.9	15.1	14.4	13.7	13.0	12.3	11.7

## Joint and Last Survivor Table (2022)

Ages	72	73	74	75	76	77	78	79	80
96	17.4	16.6	15.8	15.1	14.3	13.6	12.9	12.3	11.6
97	17.3	16.6	15.8	15.0	14.3	13.6	12.9	12.2	11.6
98	17.3	16.5	15.8	15.0	14.3	13.6	12.9	12.2	11.5
99	17.3	16.5	15.7	15.0	14.3	13.5	12.8	12.2	11.5
100	17.3	16.5	15.7	15.0	14.2	13.5	12.8	12.1	11.5
101	17.3	16.5	15.7	15.0	14.2	13.5	12.8	12.1	11.4
102	17.3	16.5	15.7	14.9	14.2	13.5	12.8	12.1	11.4
103	17.3	16.5	15.7	14.9	14.2	13.5	12.8	12.1	11.4
104	17.2	16.5	15.7	14.9	14.2	13.5	12.7	12.0	11.4
105	17.2	16.5	15.7	14.9	14.2	13.4	12.7	12.0	11.4
106	17.2	16.5	15.7	14.9	14.2	13.4	12.7	12.0	11.4
107	17.2	16.5	15.7	14.9	14.2	13.4	12.7	12.0	11.4
108	17.2	16.5	15.7	14.9	14.2	13.4	12.7	12.0	11.4
109	17.2	16.4	15.7	14.9	14.2	13.4	12.7	12.0	11.3
110	17.2	16.4	15.7	14.9	14.2	13.4	12.7	12.0	11.3
111	17.2	16.4	15.7	14.9	14.2	13.4	12.7	12.0	11.3
112	17.2	16.4	15.7	14.9	14.2	13.4	12.7	12.0	11.3
113	17.2	16.4	15.7	14.9	14.2	13.4	12.7	12.0	11.3
114	17.2	16.4	15.7	14.9	14.1	13.4	12.7	12.0	11.3
115	17.2	16.4	15.7	14.9	14.1	13.4	12.7	12.0	11.3
116	17.2	16.4	15.6	14.9	14.1	13.4	12.7	12.0	11.3
117	17.2	16.4	15.6	14.9	14.1	13.4	12.7	12.0	11.3
118	17.2	16.4	15.6	14.9	14.1	13.4	12.6	11.9	11.3
119	17.2	16.4	15.6	14.8	14.1	13.4	12.6	11.9	11.2
120+	17.2	16.4	15.6	14.8	14.1	13.3	12.6	11.9	11.2

## Joint and Last Survivor Table (2022)

Ages	81	82	83	84	85	86	87	88	89
0	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
1	83.8	83.8	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
3	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
6	78.9	78.9	78.9	78.9	78.8	78.8	78.8	78.8	78.8
7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
10	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
11	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
12	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
13	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
14	71.0	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
15	70.0	70.0	70.0	70.0	70.0	70.0	70.0	69.9	69.9
16	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
17	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
18	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
19	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
20	65.1	65.1	65.1	65.1	65.1	65.1	65.0	65.0	65.0
21	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
22	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
23	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
24	61.2	61.2	61.2	61.2	61.2	61.1	61.1	61.1	61.1
25	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
26	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
27	58.3	58.3	58.3	58.3	58.3	58.2	58.2	58.2	58.2
28	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
29	56.4	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
30	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
31	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4

## Joint and Last Survivor Table (2022)

Ages	81	82	83	84	85	86	87	88	89
32	53.5	53.5	53.5	53.5	53.5	53.5	53.4	53.4	53.4
33	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
34	51.6	51.6	51.6	51.5	51.5	51.5	51.5	51.5	51.5
35	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
36	49.7	49.7	49.6	49.6	49.6	49.6	49.6	49.6	49.6
37	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
38	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
39	46.8	46.8	46.8	46.8	46.8	46.7	46.7	46.7	46.7
40	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
41	44.9	44.9	44.9	44.9	44.8	44.8	44.8	44.8	44.8
42	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
43	43.0	43.0	43.0	42.9	42.9	42.9	42.9	42.9	42.9
44	42.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0	41.9
45	41.1	41.1	41.1	41.0	41.0	41.0	41.0	41.0	41.0
46	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.0	40.0
47	39.2	39.2	39.2	39.2	39.1	39.1	39.1	39.1	39.1
48	38.3	38.3	38.2	38.2	38.2	38.2	38.2	38.2	38.1
49	37.3	37.3	37.3	37.3	37.3	37.2	37.2	37.2	37.2
50	36.4	36.4	36.4	36.3	36.3	36.3	36.3	36.3	36.3
51	35.5	35.5	35.4	35.4	35.4	35.4	35.4	35.3	35.3
52	34.6	34.6	34.5	34.5	34.5	34.5	34.4	34.4	34.4
53	33.7	33.7	33.6	33.6	33.6	33.5	33.5	33.5	33.5
54	32.8	32.8	32.7	32.7	32.7	32.6	32.6	32.6	32.6
55	31.9	31.9	31.8	31.8	31.8	31.7	31.7	31.7	31.7
56	31.1	31.0	31.0	30.9	30.9	30.9	30.8	30.8	30.8
57	30.2	30.1	30.1	30.0	30.0	30.0	29.9	29.9	29.9
58	29.3	29.3	29.2	29.2	29.1	29.1	29.1	29.0	29.0
59	28.5	28.4	28.4	28.3	28.3	28.2	28.2	28.2	28.2
60	27.7	27.6	27.5	27.5	27.4	27.4	27.4	27.3	27.3
61	26.9	26.8	26.7	26.7	26.6	26.6	26.5	26.5	26.4
62	26.0	26.0	25.9	25.8	25.8	25.7	25.7	25.6	25.6
63	25.2	25.2	25.1	25.0	25.0	24.9	24.9	24.8	24.8

## Joint and Last Survivor Table (2022)

Ages	81	82	83	84	85	86	87	88	89
64	24.5	24.4	24.3	24.2	24.1	24.1	24.0	24.0	24.0
65	23.7	23.6	23.5	23.4	23.3	23.3	23.2	23.2	23.1
66	22.9	22.8	22.7	22.6	22.6	22.5	22.4	22.4	22.3
67	22.2	22.1	22.0	21.9	21.8	21.7	21.6	21.6	21.5
68	21.5	21.3	21.2	21.1	21.0	20.9	20.9	20.8	20.7
69	20.7	20.6	20.5	20.4	20.3	20.2	20.1	20.0	20.0
70	20.0	19.9	19.7	19.6	19.5	19.4	19.3	19.2	19.2
71	19.4	19.2	19.0	18.9	18.8	18.7	18.6	18.5	18.4
72	18.7	18.5	18.3	18.2	18.1	17.9	17.8	17.7	17.7
73	18.1	17.9	17.7	17.5	17.4	17.2	17.1	17.0	16.9
74	17.4	17.2	17.0	16.8	16.7	16.5	16.4	16.3	16.2
75	16.9	16.6	16.4	16.2	16.0	15.9	15.7	15.6	15.5
76	16.3	16.0	15.8	15.6	15.4	15.2	15.1	14.9	14.8
77	15.8	15.5	15.2	15.0	14.8	14.6	14.4	14.3	14.2
78	15.3	15.0	14.7	14.4	14.2	14.0	13.8	13.7	13.5
79	14.8	14.5	14.2	13.9	13.6	13.4	13.2	13.1	12.9
80	14.4	14.0	13.7	13.4	13.1	12.9	12.7	12.5	12.3
81	14.0	13.6	13.2	12.9	12.6	12.4	12.2	12.0	11.8
82	13.6	13.2	12.8	12.5	12.2	11.9	11.7	11.5	11.3
83	13.2	12.8	12.4	12.1	11.8	11.5	11.2	11.0	10.8
84	12.9	12.5	12.1	11.7	11.4	11.1	10.8	10.5	10.3
85	12.6	12.2	11.8	11.4	11.0	10.7	10.4	10.1	9.9
86	12.4	11.9	11.5	11.1	10.7	10.4	10.0	9.8	9.5
87	12.2	11.7	11.2	10.8	10.4	10.0	9.7	9.4	9.1
88	12.0	11.5	11.0	10.5	10.1	9.8	9.4	9.1	8.8
89	11.8	11.3	10.8	10.3	9.9	9.5	9.1	8.8	8.5
90	11.6	11.1	10.6	10.1	9.7	9.3	8.9	8.6	8.3
91	11.5	10.9	10.4	9.9	9.5	9.1	8.7	8.3	8.0
92	11.4	10.8	10.3	9.8	9.3	8.9	8.5	8.1	7.8
93	11.3	10.7	10.1	9.6	9.2	8.7	8.3	7.9	7.6
94	11.2	10.6	10.0	9.5	9.0	8.6	8.2	7.8	7.4
95	11.1	10.5	9.9	9.4	8.9	8.5	8.0	7.6	7.3

## Joint and Last Survivor Table (2022)

Ages	81	82	83	84	85	86	87	88	89
96	11.0	10.4	9.9	9.3	8.8	8.4	7.9	7.5	7.1
97	11.0	10.4	9.8	9.2	8.7	8.3	7.8	7.4	7.0
98	10.9	10.3	9.7	9.2	8.7	8.2	7.7	7.3	6.9
99	10.9	10.2	9.7	9.1	8.6	8.1	7.6	7.2	6.8
100	10.8	10.2	9.6	9.1	8.5	8.0	7.6	7.2	6.8
101	10.8	10.2	9.6	9.0	8.5	8.0	7.5	7.1	6.7
102	10.8	10.1	9.6	9.0	8.5	8.0	7.5	7.0	6.6
103	10.7	10.1	9.5	9.0	8.4	7.9	7.4	7.0	6.6
104	10.7	10.1	9.5	8.9	8.4	7.9	7.4	7.0	6.6
105	10.7	10.1	9.5	8.9	8.4	7.9	7.4	6.9	6.5
106	10.7	10.1	9.5	8.9	8.4	7.9	7.4	6.9	6.5
107	10.7	10.1	9.5	8.9	8.4	7.9	7.4	6.9	6.5
108	10.7	10.1	9.5	8.9	8.4	7.8	7.4	6.9	6.5
109	10.7	10.1	9.5	8.9	8.4	7.8	7.4	6.9	6.5
110	10.7	10.1	9.5	8.9	8.3	7.8	7.4	6.9	6.5
111	10.7	10.1	9.5	8.9	8.3	7.8	7.3	6.9	6.5
112	10.7	10.1	9.5	8.9	8.3	7.8	7.3	6.9	6.5
113	10.7	10.0	9.4	8.9	8.3	7.8	7.3	6.9	6.4
114	10.7	10.0	9.4	8.9	8.3	7.8	7.3	6.9	6.4
115	10.7	10.0	9.4	8.8	8.3	7.8	7.3	6.8	6.4
116	10.6	10.0	9.4	8.8	8.3	7.7	7.3	6.8	6.4
117	10.6	10.0	9.4	8.8	8.2	7.7	7.2	6.8	6.3
118	10.6	10.0	9.3	8.8	8.2	7.7	7.2	6.7	6.3
119	10.6	9.9	9.3	8.7	8.2	7.6	7.1	6.6	6.2
120+	10.5	9.9	9.3	8.7	8.1	7.6	7.1	6.6	6.1

## Joint and Last Survivor Table (2022)

Ages	90	91	92	93	94	95	96	97	98
0	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
1	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
3	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
10	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
11	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
12	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
13	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
14	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
15	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
16	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
17	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
18	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
19	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
20	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
21	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
22	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
23	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
24	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
25	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
26	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
27	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
28	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
29	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
30	55.4	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
31	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4

## Joint and Last Survivor Table (2022)

Ages	90	91	92	93	94	95	96	97	98
32	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
33	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
34	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
35	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
36	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
37	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
38	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
39	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
40	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
41	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
42	43.9	43.9	43.8	43.8	43.8	43.8	43.8	43.8	43.8
43	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
44	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
45	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
46	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
47	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1
48	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
49	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2	37.2
50	36.3	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
51	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
52	34.4	34.4	34.4	34.4	34.4	34.4	34.3	34.3	34.3
53	33.5	33.5	33.5	33.4	33.4	33.4	33.4	33.4	33.4
54	32.6	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
55	31.7	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
56	30.8	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
57	29.9	29.9	29.8	29.8	29.8	29.8	29.8	29.8	29.8
58	29.0	29.0	29.0	29.0	28.9	28.9	28.9	28.9	28.9
59	28.1	28.1	28.1	28.1	28.1	28.1	28.0	28.0	28.0
60	27.3	27.3	27.2	27.2	27.2	27.2	27.2	27.2	27.2
61	26.4	26.4	26.4	26.4	26.3	26.3	26.3	26.3	26.3
62	25.6	25.6	25.5	25.5	25.5	25.5	25.5	25.5	25.5
63	24.7	24.7	24.7	24.7	24.7	24.6	24.6	24.6	24.6

## Joint and Last Survivor Table (2022)

Ages	90	91	92	93	94	95	96	97	98
64	23.9	23.9	23.9	23.8	23.8	23.8	23.8	23.8	23.8
65	23.1	23.1	23.0	23.0	23.0	23.0	23.0	23.0	22.9
66	22.3	22.3	22.2	22.2	22.2	22.2	22.2	22.1	22.1
67	21.5	21.5	21.4	21.4	21.4	21.4	21.3	21.3	21.3
68	20.7	20.7	20.6	20.6	20.6	20.6	20.5	20.5	20.5
69	19.9	19.9	19.8	19.8	19.8	19.7	19.7	19.7	19.7
70	19.1	19.1	19.0	19.0	19.0	18.9	18.9	18.9	18.9
71	18.4	18.3	18.3	18.2	18.2	18.2	18.1	18.1	18.1
72	17.6	17.5	17.5	17.4	17.4	17.4	17.4	17.3	17.3
73	16.9	16.8	16.7	16.7	16.6	16.6	16.6	16.6	16.5
74	16.1	16.1	16.0	15.9	15.9	15.9	15.8	15.8	15.8
75	15.4	15.3	15.3	15.2	15.2	15.1	15.1	15.0	15.0
76	14.7	14.6	14.6	14.5	14.4	14.4	14.3	14.3	14.3
77	14.1	14.0	13.9	13.8	13.7	13.7	13.6	13.6	13.6
78	13.4	13.3	13.2	13.1	13.1	13.0	12.9	12.9	12.9
79	12.8	12.7	12.6	12.5	12.4	12.3	12.3	12.2	12.2
80	12.2	12.1	11.9	11.9	11.8	11.7	11.6	11.6	11.5
81	11.6	11.5	11.4	11.3	11.2	11.1	11.0	11.0	10.9
82	11.1	10.9	10.8	10.7	10.6	10.5	10.4	10.4	10.3
83	10.6	10.4	10.3	10.1	10.0	9.9	9.9	9.8	9.7
84	10.1	9.9	9.8	9.6	9.5	9.4	9.3	9.2	9.2
85	9.7	9.5	9.3	9.2	9.0	8.9	8.8	8.7	8.7
86	9.3	9.1	8.9	8.7	8.6	8.5	8.4	8.3	8.2
87	8.9	8.7	8.5	8.3	8.2	8.0	7.9	7.8	7.7
88	8.6	8.3	8.1	7.9	7.8	7.6	7.5	7.4	7.3
89	8.3	8.0	7.8	7.6	7.4	7.3	7.1	7.0	6.9
90	8.0	7.7	7.5	7.3	7.1	6.9	6.8	6.7	6.6
91	7.7	7.5	7.2	7.0	6.8	6.6	6.5	6.4	6.2
92	7.5	7.2	7.0	6.7	6.5	6.4	6.2	6.1	5.9
93	7.3	7.0	6.7	6.5	6.3	6.1	5.9	5.8	5.7
94	7.1	6.8	6.5	6.3	6.1	5.9	5.7	5.5	5.4
95	6.9	6.6	6.4	6.1	5.9	5.7	5.5	5.3	5.2

## Joint and Last Survivor Table (2022)

Ages	90	91	92	93	94	95	96	97	98
96	6.8	6.5	6.2	5.9	5.7	5.5	5.3	5.1	5.0
97	6.7	6.4	6.1	5.8	5.5	5.3	5.1	4.9	4.8
98	6.6	6.2	5.9	5.7	5.4	5.2	5.0	4.8	4.6
99	6.5	6.1	5.8	5.5	5.3	5.0	4.8	4.6	4.5
100	6.4	6.0	5.7	5.4	5.2	4.9	4.7	4.5	4.3
101	6.3	6.0	5.6	5.3	5.1	4.8	4.6	4.4	4.2
102	6.3	5.9	5.6	5.3	5.0	4.7	4.5	4.3	4.1
103	6.2	5.9	5.5	5.2	4.9	4.7	4.5	4.2	4.1
104	6.2	5.8	5.5	5.2	4.9	4.6	4.4	4.2	4.0
105	6.1	5.8	5.4	5.1	4.9	4.6	4.4	4.1	4.0
106	6.1	5.8	5.4	5.1	4.8	4.6	4.3	4.1	3.9
107	6.1	5.8	5.4	5.1	4.8	4.6	4.3	4.1	3.9
108	6.1	5.7	5.4	5.1	4.8	4.5	4.3	4.1	3.9
109	6.1	5.7	5.4	5.1	4.8	4.5	4.3	4.1	3.9
110	6.1	5.7	5.4	5.1	4.8	4.5	4.3	4.1	3.9
111	6.1	5.7	5.4	5.1	4.8	4.5	4.3	4.1	3.9
112	6.1	5.7	5.4	5.1	4.8	4.5	4.3	4.0	3.8
113	6.1	5.7	5.3	5.0	4.7	4.5	4.2	4.0	3.8
114	6.0	5.7	5.3	5.0	4.7	4.4	4.2	4.0	3.8
115	6.0	5.6	5.3	5.0	4.7	4.4	4.2	4.0	3.8
116	6.0	5.6	5.2	4.9	4.6	4.4	4.1	3.9	3.7
117	5.9	5.5	5.2	4.9	4.6	4.3	4.0	3.8	3.6
118	5.8	5.5	5.1	4.8	4.5	4.2	3.9	3.7	3.5
119	5.8	5.4	5.0	4.7	4.4	4.1	3.8	3.6	3.3
120+	5.7	5.3	4.9	4.6	4.3	4.0	3.7	3.4	3.2

## Joint and Last Survivor Table (2022)

Ages	99	100	101	102	103	104	105	106	107
0	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
1	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
3	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
10	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
11	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
12	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
13	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
14	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
15	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
16	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
17	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
18	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
19	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
20	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
21	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
22	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
23	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
24	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
25	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
26	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
27	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
28	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
29	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
30	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
31	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4

## Joint and Last Survivor Table (2022)

Ages	99	100	101	102	103	104	105	106	107
32	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
33	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
34	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
35	50.6	50.6	50.6	50.6	50.5	50.5	50.5	50.5	50.5
36	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
37	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
38	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
39	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
40	45.8	45.8	45.8	45.8	45.8	45.8	45.7	45.7	45.7
41	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
42	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
43	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
44	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
45	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
46	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
47	39.1	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
48	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
49	37.2	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
50	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
51	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
52	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
53	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
54	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
55	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
56	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
57	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
58	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
59	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
60	27.2	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
61	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
62	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
63	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6

## Joint and Last Survivor Table (2022)

Ages	99	100	101	102	103	104	105	106	107
64	23.8	23.8	23.8	23.7	23.7	23.7	23.7	23.7	23.7
65	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
66	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
67	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
68	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
69	19.7	19.7	19.7	19.7	19.6	19.6	19.6	19.6	19.6
70	18.9	18.9	18.9	18.8	18.8	18.8	18.8	18.8	18.8
71	18.1	18.1	18.1	18.0	18.0	18.0	18.0	18.0	18.0
72	17.3	17.3	17.3	17.3	17.3	17.2	17.2	17.2	17.2
73	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
74	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
75	15.0	15.0	15.0	14.9	14.9	14.9	14.9	14.9	14.9
76	14.3	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
77	13.5	13.5	13.5	13.5	13.5	13.5	13.4	13.4	13.4
78	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7
79	12.2	12.1	12.1	12.1	12.1	12.0	12.0	12.0	12.0
80	11.5	11.5	11.4	11.4	11.4	11.4	11.4	11.4	11.4
81	10.9	10.8	10.8	10.8	10.7	10.7	10.7	10.7	10.7
82	10.2	10.2	10.2	10.1	10.1	10.1	10.1	10.1	10.1
83	9.7	9.6	9.6	9.6	9.5	9.5	9.5	9.5	9.5
84	9.1	9.1	9.0	9.0	9.0	8.9	8.9	8.9	8.9
85	8.6	8.5	8.5	8.5	8.4	8.4	8.4	8.4	8.4
86	8.1	8.0	8.0	8.0	7.9	7.9	7.9	7.9	7.9
87	7.6	7.6	7.5	7.5	7.4	7.4	7.4	7.4	7.4
88	7.2	7.2	7.1	7.0	7.0	7.0	6.9	6.9	6.9
89	6.8	6.8	6.7	6.6	6.6	6.6	6.5	6.5	6.5
90	6.5	6.4	6.3	6.3	6.2	6.2	6.1	6.1	6.1
91	6.1	6.0	6.0	5.9	5.9	5.8	5.8	5.8	5.8
92	5.8	5.7	5.6	5.6	5.5	5.5	5.4	5.4	5.4
93	5.5	5.4	5.3	5.3	5.2	5.2	5.1	5.1	5.1
94	5.3	5.2	5.1	5.0	4.9	4.9	4.9	4.8	4.8
95	5.0	4.9	4.8	4.7	4.7	4.6	4.6	4.6	4.6

## Joint and Last Survivor Table (2022)

Ages	99	100	101	102	103	104	105	106	107
96	4.8	4.7	4.6	4.5	4.5	4.4	4.4	4.3	4.3
97	4.6	4.5	4.4	4.3	4.2	4.2	4.1	4.1	4.1
98	4.5	4.3	4.2	4.1	4.1	4.0	4.0	3.9	3.9
99	4.3	4.2	4.1	4.0	3.9	3.8	3.8	3.8	3.7
100	4.2	4.1	3.9	3.8	3.7	3.7	3.6	3.6	3.6
101	4.1	3.9	3.8	3.7	3.6	3.5	3.5	3.5	3.4
102	4.0	3.8	3.7	3.6	3.5	3.4	3.4	3.3	3.3
103	3.9	3.7	3.6	3.5	3.4	3.3	3.3	3.2	3.2
104	3.8	3.7	3.5	3.4	3.3	3.3	3.2	3.2	3.2
105	3.8	3.6	3.5	3.4	3.3	3.2	3.1	3.1	3.1
106	3.8	3.6	3.5	3.3	3.2	3.2	3.1	3.1	3.1
107	3.7	3.6	3.4	3.3	3.2	3.2	3.1	3.1	3.0
108	3.7	3.6	3.4	3.3	3.2	3.1	3.1	3.0	3.0
109	3.7	3.6	3.4	3.3	3.2	3.1	3.1	3.0	3.0
110	3.7	3.5	3.4	3.3	3.2	3.1	3.1	3.0	3.0
111	3.7	3.5	3.4	3.3	3.2	3.1	3.0	3.0	3.0
112	3.7	3.5	3.4	3.3	3.2	3.1	3.0	3.0	3.0
113	3.6	3.5	3.4	3.2	3.1	3.1	3.0	3.0	2.9
114	3.6	3.5	3.3	3.2	3.1	3.0	3.0	2.9	2.9
115	3.6	3.4	3.3	3.2	3.1	3.0	2.9	2.9	2.9
116	3.5	3.3	3.2	3.1	3.0	2.9	2.8	2.8	2.8
117	3.4	3.3	3.1	3.0	2.9	2.8	2.7	2.7	2.7
118	3.3	3.1	3.0	2.8	2.7	2.6	2.6	2.5	2.5
119	3.1	2.9	2.8	2.6	2.5	2.4	2.4	2.3	2.3
120+	3.0	2.8	2.6	2.5	2.3	2.2	2.1	2.1	2.1

## Joint and Last Survivor Table (2022)

Ages	108	109	110	111	112	113	114	115	116
0	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
1	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
2	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
3	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
5	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
8	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
10	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
11	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
12	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
13	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
14	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
15	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
16	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
17	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
18	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
19	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
20	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
21	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
22	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
23	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
24	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
25	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
26	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
27	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
28	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
29	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
30	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
31	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4

## Joint and Last Survivor Table (2022)

Ages	108	109	110	111	112	113	114	115	116
32	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
33	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
34	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
35	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
36	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
37	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6
38	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
39	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7	46.7
40	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
41	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8	44.8
42	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
43	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
44	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
45	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
46	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
47	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0	39.0
48	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
49	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
50	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
51	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
52	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3	34.3
53	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
54	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
55	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
56	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
57	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8
58	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
59	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
60	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1	27.1
61	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.3
62	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
63	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6

## Joint and Last Survivor Table (2022)

Ages	108	109	110	111	112	113	114	115	116
64	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
65	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
66	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
67	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3	21.3
68	20.5	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
69	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
70	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8	18.8
71	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
72	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2
73	16.5	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
74	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.6
75	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
76	14.2	14.2	14.2	14.2	14.2	14.2	14.1	14.1	14.1
77	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
78	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
79	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
80	11.4	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
81	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.6
82	10.1	10.1	10.1	10.1	10.1	10.0	10.0	10.0	10.0
83	9.5	9.5	9.5	9.5	9.5	9.4	9.4	9.4	9.4
84	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.8	8.8
85	8.4	8.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3
86	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.7
87	7.4	7.4	7.4	7.3	7.3	7.3	7.3	7.3	7.3
88	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.8	6.8
89	6.5	6.5	6.5	6.5	6.5	6.4	6.4	6.4	6.4
90	6.1	6.1	6.1	6.1	6.1	6.1	6.0	6.0	6.0
91	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.6	5.6
92	5.4	5.4	5.4	5.4	5.4	5.3	5.3	5.3	5.2
93	5.1	5.1	5.1	5.1	5.1	5.0	5.0	5.0	4.9
94	4.8	4.8	4.8	4.8	4.8	4.7	4.7	4.7	4.6
95	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.4	4.4

## Joint and Last Survivor Table (2022)

Ages	108	109	110	111	112	113	114	115	116
96	4.3	4.3	4.3	4.3	4.3	4.2	4.2	4.2	4.1
97	4.1	4.1	4.1	4.1	4.0	4.0	4.0	4.0	3.9
98	3.9	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.7
99	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
100	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.4	3.3
101	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.3	3.2
102	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.1
103	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.1	3.0
104	3.1	3.1	3.1	3.1	3.1	3.1	3.0	3.0	2.9
105	3.1	3.1	3.1	3.0	3.0	3.0	3.0	2.9	2.8
106	3.0	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.8
107	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.8
108	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.8	2.8
109	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.8	2.8
110	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.8	2.7
111	3.0	3.0	2.9	2.9	2.9	2.9	2.8	2.8	2.7
112	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.7
113	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.7
114	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.7	2.6
115	2.8	2.8	2.8	2.8	2.8	2.8	2.7	2.7	2.6
116	2.8	2.8	2.7	2.7	2.7	2.7	2.6	2.6	2.5
117	2.7	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.4
118	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.3	2.2
119	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.0
120+	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.8	1.8

## Joint and Last Survivor Table (2022)

Ages	117	118	119	120+
0	84.6	84.6	84.6	84.6
1	83.7	83.7	83.7	83.7
2	82.8	82.8	82.8	82.8
3	81.8	81.8	81.8	81.8
4	80.8	80.8	80.8	80.8
5	79.8	79.8	79.8	79.8
6	78.8	78.8	78.8	78.8
7	77.9	77.9	77.9	77.9
8	76.9	76.9	76.9	76.9
9	75.9	75.9	75.9	75.9
10	74.9	74.9	74.9	74.9
11	73.9	73.9	73.9	73.9
12	72.9	72.9	72.9	72.9
13	71.9	71.9	71.9	71.9
14	70.9	70.9	70.9	70.9
15	69.9	69.9	69.9	69.9
16	69.0	69.0	69.0	69.0
17	68.0	68.0	68.0	68.0
18	67.0	67.0	67.0	67.0
19	66.0	66.0	66.0	66.0
20	65.0	65.0	65.0	65.0
21	64.1	64.1	64.1	64.1
22	63.1	63.1	63.1	63.1
23	62.1	62.1	62.1	62.1
24	61.1	61.1	61.1	61.1
25	60.2	60.2	60.2	60.2
26	59.2	59.2	59.2	59.2
27	58.2	58.2	58.2	58.2
28	57.3	57.3	57.3	57.3
29	56.3	56.3	56.3	56.3
30	55.3	55.3	55.3	55.3
31	54.4	54.4	54.4	54.4

## Joint and Last Survivor Table (2022)

Ages	117	118	119	120+
32	53.4	53.4	53.4	53.4
33	52.5	52.5	52.5	52.5
34	51.5	51.5	51.5	51.5
35	50.5	50.5	50.5	50.5
36	49.6	49.6	49.6	49.6
37	48.6	48.6	48.6	48.6
38	47.7	47.7	47.7	47.7
39	46.7	46.7	46.7	46.7
40	45.7	45.7	45.7	45.7
41	44.8	44.8	44.8	44.8
42	43.8	43.8	43.8	43.8
43	42.9	42.9	42.9	42.9
44	41.9	41.9	41.9	41.9
45	41.0	41.0	41.0	41.0
46	40.0	40.0	40.0	40.0
47	39.0	39.0	39.0	39.0
48	38.1	38.1	38.1	38.1
49	37.1	37.1	37.1	37.1
50	36.2	36.2	36.2	36.2
51	35.3	35.3	35.3	35.3
52	34.3	34.3	34.3	34.3
53	33.4	33.4	33.4	33.4
54	32.5	32.5	32.5	32.5
55	31.6	31.6	31.6	31.6
56	30.7	30.7	30.7	30.6
57	29.8	29.8	29.8	29.8
58	28.9	28.9	28.9	28.9
59	28.0	28.0	28.0	28.0
60	27.1	27.1	27.1	27.1
61	26.3	26.3	26.2	26.2
62	25.4	25.4	25.4	25.4
63	24.6	24.5	24.5	24.5

## Joint and Last Survivor Table (2022)

Ages	117	118	119	120+
64	23.7	23.7	23.7	23.7
65	22.9	22.9	22.9	22.9
66	22.1	22.1	22.1	22.0
67	21.2	21.2	21.2	21.2
68	20.4	20.4	20.4	20.4
69	19.6	19.6	19.6	19.6
70	18.8	18.8	18.8	18.8
71	18.0	18.0	18.0	18.0
72	17.2	17.2	17.2	17.2
73	16.4	16.4	16.4	16.4
74	15.6	15.6	15.6	15.6
75	14.9	14.9	14.8	14.8
76	14.1	14.1	14.1	14.1
77	13.4	13.4	13.4	13.3
78	12.7	12.6	12.6	12.6
79	12.0	11.9	11.9	11.9
80	11.3	11.3	11.2	11.2
81	10.6	10.6	10.6	10.5
82	10.0	10.0	9.9	9.9
83	9.4	9.3	9.3	9.3
84	8.8	8.8	8.7	8.7
85	8.2	8.2	8.2	8.1
86	7.7	7.7	7.6	7.6
87	7.2	7.2	7.1	7.1
88	6.8	6.7	6.6	6.6
89	6.3	6.3	6.2	6.1
90	5.9	5.8	5.8	5.7
91	5.5	5.5	5.4	5.3
92	5.2	5.1	5.0	4.9
93	4.9	4.8	4.7	4.6
94	4.6	4.5	4.4	4.3
95	4.3	4.2	4.1	4.0

## Joint and Last Survivor Table (2022)

Ages	117	118	119	120+
96	4.0	3.9	3.8	3.7
97	3.8	3.7	3.6	3.4
98	3.6	3.5	3.3	3.2
99	3.4	3.3	3.1	3.0
100	3.3	3.1	2.9	2.8
101	3.1	3.0	2.8	2.6
102	3.0	2.8	2.6	2.5
103	2.9	2.7	2.5	2.3
104	2.8	2.6	2.4	2.2
105	2.7	2.6	2.4	2.1
106	2.7	2.5	2.3	2.1
107	2.7	2.5	2.3	2.1
108	2.7	2.5	2.3	2.0
109	2.6	2.5	2.3	2.0
110	2.6	2.5	2.2	2.0
111	2.6	2.4	2.2	2.0
112	2.6	2.4	2.2	2.0
113	2.6	2.4	2.2	1.9
114	2.5	2.4	2.1	1.9
115	2.5	2.3	2.1	1.8
116	2.4	2.2	2.0	1.8
117	2.3	2.1	1.9	1.6
118	2.1	1.9	1.7	1.4
119	1.9	1.7	1.3	1.1
120+	1.6	1.4	1.1	1.0

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# Single Life Table (2022)

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IRS Reg. 1.401(a)(9)-9 (b)<sup>1</sup>

The following table, referred to as the Single Life Table, sets forth the life expectancy of an individual at each age.

Age	Life expectancy	RMD as a % of Account Balance
0	84.6	1.182%
1	83.7	1.195%
2	82.8	1.208%
3	81.8	1.222%
4	80.8	1.238%
5	79.8	1.253%
6	78.8	1.269%
7	77.9	1.284%
8	76.9	1.300%
9	75.9	1.318%
10	74.9	1.335%
11	73.9	1.353%
12	72.9	1.372%
13	71.9	1.391%
14	70.9	1.410%
15	69.9	1.431%
16	69.0	1.449%
17	68.0	1.471%
18	67.0	1.493%
19	66.0	1.515%
20	65.0	1.538%
21	64.1	1.560%
22	63.1	1.585%

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<sup>1</sup> The life expectancies shown in this table apply to required minimum distributions required to be made *beginning January 1, 2022 and later*. For required minimum distributions before this date, different life expectancies apply.

## Single Life Table (2022)

Age	Life expectancy	RMD as a % of Account Balance
23	62.1	1.610%
24	61.1	1.637%
25	60.2	1.661%
26	59.2	1.689%
27	58.2	1.718%
28	57.3	1.745%
29	56.3	1.776%
30	55.3	1.808%
31	54.4	1.838%
32	53.4	1.873%
33	52.5	1.905%
34	51.5	1.942%
35	50.5	1.980%
36	49.6	2.016%
37	48.6	2.058%
38	47.7	2.096%
39	46.7	2.141%
40	45.7	2.188%
41	44.8	2.232%
42	43.8	2.283%
43	42.9	2.331%
44	41.9	2.387%
45	41.0	2.439%
46	40.0	2.500%
47	39.0	2.564%
48	38.1	2.625%
49	37.1	2.695%
50	36.2	2.762%
51	35.3	2.833%
52	34.3	2.915%
53	33.4	2.994%

## Single Life Table (2022)

Age	Life expectancy	RMD as a % of Account Balance
54	32.5	3.077%
55	31.6	3.165%
56	30.6	3.268%
57	29.8	3.356%
58	28.9	3.460%
59	28.0	3.571%
60	27.1	3.690%
61	26.2	3.817%
62	25.4	3.937%
63	24.5	4.082%
64	23.7	4.219%
65	22.9	4.367%
66	22.0	4.545%
67	21.2	4.717%
68	20.4	4.902%
69	19.6	5.102%
70	18.8	5.319%
71	18.0	5.556%
72	17.2	5.814%
73	16.4	6.098%
74	15.6	6.410%
75	14.8	6.757%
76	14.1	7.092%
77	13.3	7.519%
78	12.6	7.937%
79	11.9	8.403%
80	11.2	8.929%
81	10.5	9.524%
82	9.9	10.101%
83	9.3	10.753%
84	8.7	11.494%

## Single Life Table (2022)

Age	Life expectancy	RMD as a % of Account Balance
85	8.1	12.346%
86	7.6	13.158%
87	7.1	14.085%
88	6.6	15.152%
89	6.1	16.393%
90	5.7	17.544%
91	5.3	18.868%
92	4.9	20.408%
93	4.6	21.739%
94	4.3	23.256%
95	4.0	25.000%
96	3.7	27.027%
97	3.4	29.412%
98	3.2	31.250%
99	3.0	33.333%
100	2.8	35.714%
101	2.6	38.462%
102	2.5	40.000%
103	2.3	43.478%
104	2.2	45.455%
105	2.1	47.619%
106	2.1	47.619%
107	2.1	47.619%
108	2.0	50.000%
109	2.0	50.000%
110	2.0	50.000%
111	2.0	50.000%
112	2.0	50.000%
113	1.9	52.632%
114	1.9	52.632%
115	1.8	55.556%

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## Single Life Table (2022)

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Age	Life expectancy	RMD as a % of Account Balance
116	1.8	55.556%
117	1.6	62.500%
118	1.4	71.429%
119	1.1	90.909%
120+	1.0	100.000%

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# Uniform Lifetime Table (2022)

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IRS Reg. 1.401(a)(9)-9 (c)<sup>1</sup>

The following table, referred to as the Uniform Lifetime Table, sets forth the distribution period that applies for lifetime distributions to an employee in situations in which the employee's surviving spouse is not the sole designated beneficiary. This table is also used if the employee's surviving spouse is the sole designated beneficiary but is not more than 10 years younger than the employee.

Age of employee	Distribution period	RMD as a % of Account Balance
72	27.4	3.650%
73	26.5	3.774%
74	25.5	3.922%
75	24.6	4.065%
76	23.7	4.219%
77	22.9	4.367%
78	22.0	4.545%
79	21.1	4.739%
80	20.2	4.950%
81	19.4	5.155%
82	18.5	5.405%
83	17.7	5.650%
84	16.8	5.952%
85	16.0	6.250%
86	15.2	6.579%
87	14.4	6.944%
88	13.7	7.299%
89	12.9	7.752%
90	12.2	8.197%
91	11.5	8.696%
92	10.8	9.259%
93	10.1	9.901%
94	9.5	10.526%
95	8.9	11.236%
96	8.4	11.905%

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<sup>1</sup> The distribution periods shown in this table apply to required minimum distributions required to be made *beginning January 1, 2022 and later*. For required minimum distributions before this date, different distribution periods apply.

## Uniform Lifetime Table (2022)

Age of employee	Distribution period	RMD as a % of Account Balance
97	7.8	12.821%
98	7.3	13.699%
99	6.8	14.706%
100	6.4	15.625%
101	6.0	16.667%
102	5.6	17.857%
103	5.2	19.231%
104	4.9	20.408%
105	4.6	21.739%
106	4.3	23.256%
107	4.1	24.390%
108	3.9	25.641%
109	3.7	27.027%
110	3.5	28.571%
111	3.4	29.412%
112	3.3	30.303%
113	3.1	32.258%
114	3.0	33.333%
115	2.9	34.483%
116	2.8	35.714%
117	2.7	37.037%
118	2.5	40.000%
119	2.3	43.478%
120+	2.0	50.000%