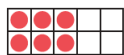
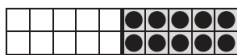


Add Zero Facts

When you add 0 to any number, the sum is always that number.



$$6 + 0 = 6$$



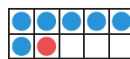
$$0 + 10 = 10$$

Addition Strategy Posters

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Count On Facts

You can count on when you add 1, 2, or 3 to another number.



$$6 + 1 = 7$$



$$2 + 6 = 8$$



$$6 + 3 = 9$$

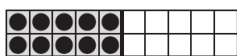
Tip: Count on from the larger addend.

Addition Strategy Posters

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Doubles Facts

When you add the same number to itself, it's a Doubles fact.



$$5 + 5 = 10$$



$$7 + 7 = 14$$

Doubles are always even.

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Doubles Plus or Minus One Facts

Double the smaller number and add 1.



$$7 + 8 = 15$$

Double the larger number and subtract 1.



$$8 + 7 = 15$$

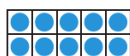
Doubles Plus or Minus One are always odd.

Addition Strategy Posters

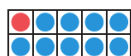
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Make Ten Facts

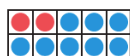
These pairs of numbers make 10.



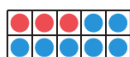
$$0 + 10 = 10$$



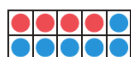
$$1 + 9 = 10$$



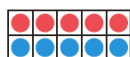
$$2 + 8 = 10$$



$$3 + 7 = 10$$



$$4 + 6 = 10$$



$$5 + 5 = 10$$

Addition Strategy Posters

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Add Ten Facts

When you add 10 to a single-digit number, the sum is always a teen number.



$$10 + 4 = 14$$



$$7 + 10 = 17$$

Addition Strategy Posters

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Add Nine Facts

To solve $9 + 4$, take 1 from the 4 and give it to the 9 to make $10 + 3$.

$$9 + 4 = 10 + 3$$



$$9 + 4 = 13$$

To solve $7 + 9$, take 1 from the 7 and give it to the 9 to make $6 + 10$.

$$7 + 9 = 6 + 10$$



$$7 + 9 = 16$$

Addition Strategy Posters

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Leftover Facts

The leftover facts can be solved many ways, using different strategies.



$$\begin{array}{r} 7 + 5 \\ \quad \swarrow \searrow \\ 7 + 3 = 10 \\ 10 + 2 = 12 \end{array}$$



$$\begin{array}{r} 7 + 5 \\ \quad \swarrow \searrow \\ 5 + 5 = 10 \\ 10 + 2 = 12 \end{array}$$

Addition Strategy Posters

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Zero Facts

When you subtract 0 from any number, the difference is always the number you started with.



$$11 - 0 = 11$$



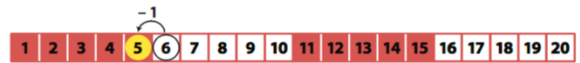
$$18 - 0 = 18$$

Subtraction Strategy Posters

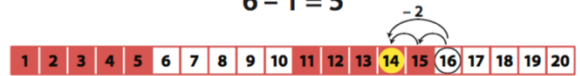
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Count Back Facts

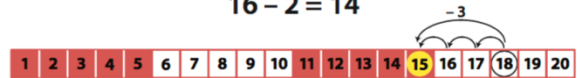
You can count back when you subtract 1, 2, or 3 from another number.



$$6 - 1 = 5$$



$$16 - 2 = 14$$



$$18 - 3 = 15$$

Subtraction Strategy Posters

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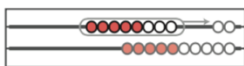
Take All Facts

Any number minus itself is always 0.

$$8 - 8 = 0$$

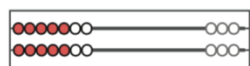


First I'll show 8 on my number rack.

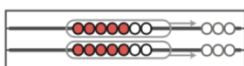


Now I'll subtract all 8 by pushing them back. There are 0 left.

$$14 - 14 = 0$$



I pushed over 7 on top and 7 on the bottom to make 14.



When I subtract all 14 by pushing them back to start, there aren't any left.

Subtraction Strategy Posters

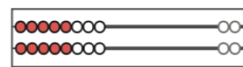
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Take Half Facts

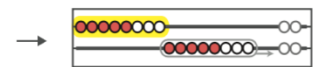
When you subtract half of a number, the answer matches the amount you subtracted.

Can you explain why?

$$16 - 8 = 8$$



I slid over 16 beads, 8 on top and 8 on the bottom.



When I subtract 8 by pushing all of the beads on the bottom row back to start, there are still 8 on top.

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Take Away Ten Facts

When you subtract 10 from a teen number, only the ones are left.



$$13 - 10 = 3$$



$$18 - 10 = 8$$

Subtraction Strategy Posters

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Back to Ten Facts

When you subtract all the ones from a teen number, all you have left is 10.



$$13 - 3 = 10$$



$$18 - 8 = 10$$

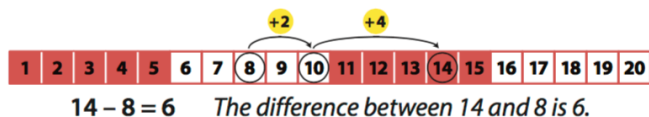
Subtraction Strategy Posters

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Up to Ten Facts

To use the Up to Ten strategy, add to the smaller number to make ten. Then add more to reach the larger number. The total amount you add is the difference.

To subtract 8 from 14, think of $8 + 2 = 10$, then add 4 more to get 14.

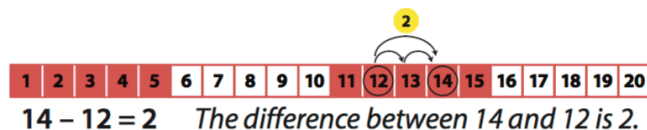
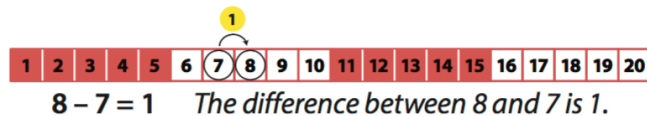


Subtraction Strategy Posters

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Neighbor Facts

The difference between two numbers that live next door to each other, or almost next door, is always 1 or 2.



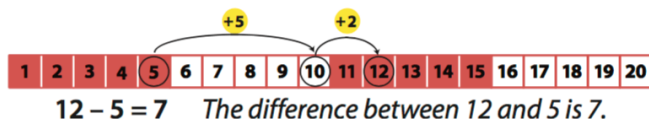
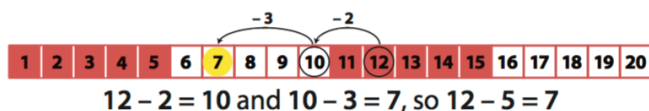
Subtraction Strategy Posters

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Leftover Facts

The leftover facts can be solved many ways, using different strategies.

Here are two strategies for $12 - 5$.



Subtraction Strategy Posters

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Free Online Tools and Games

Number Rack/Rekenrek & Ten Frame Apps

<http://catalog.mathlearningcenter.org/apps>

Five Frame Game

<https://illuminations.nctm.org/Activity.aspx?id=3564>

Pairs of 5

<http://www.iboard.co.uk/iwb/Alien-Pairs-to-5-2316>

Make 10/Bonds of 10/Ten Frames

<http://gotkidsgames.com/tt/tt.html>

<http://www.iboard.co.uk/iwb/Ladybird-Spot-Totals-618>

http://www.ictgames.com/save_the_whale_v4.html

http://www.mathplayground.com/number_bonds_II.html

<http://illuminations.nctm.org/activity.aspx?id=3565>

Doubles

<http://www.kidsmathtv.com/free/adding-doubles-math-game-for-1st-grade-snakes-and-ladders-game/>

<http://www.iboard.co.uk/iwb/Domino-Sort-Doubles-614>

<http://www.ictgames.com/robindoubles.html>

<https://www.ixl.com/math/grade-1/add-doubles>

Doubles + or - 1

<http://www.ictgames.com/dinosaurDentist/index.html>

Online Board Games

Mancala <http://www.coolmath-games.com/0-mancala>

Board Games

[Set \(Ages 5+\)](#)

[Chutes and Ladders \(Ages 5+\)](#)

[Mancala \(Ages 5+\)](#)

[Dominoes \(6+\)](#)

[Solitaire \(Ages 6+\)](#)

[Yahtzee \(Ages 7+\)](#)

[Uno \(Ages 7+\)](#)

[Phase 10 \(Ages 7+\)](#)

[Skip-Bo \(Ages 7+\)](#)

[Rummikub \(Ages 7+\)](#)

[Rack-o \(Ages 8+\)](#)

[Sudoku \(Ages 8+\)](#)

[20 Express \(Ages 8+\)](#)

[Sumoku \(Ages 9+\)](#)

Traditional Flash Cards

Consider having children sort flashcards by strategies and then work through a set while explaining the strategy being used to solve these. Several flashcards could be solved using more than one strategy.

Children could also use ten frames, number racks, or other visual models to work through solving the facts.

Dominoes <https://dominoes.playdrift.com/#/157fddcc94051478fdb1f8bc>

Sumoku

http://www.blueorangegames.com/sumoku/index.php?option=com_sumoku&view=liste&Itemid=2&lang=en

