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Challenging maths puzzles with answers

If you like what you see here you will love our entire year 1 math digital worksheet download. Price: £14.99 Details More September 16, 2020 Reading time: 8 minutes math riddles with answers helping children develop interest and talent in mathematics. Parents can help their children solve these riddles presented in the article. Mathematical riddles can be tricky problems with challenging solutions. These questions are based on an app helping your child think out of the box. They will help your kids improve their IQ and academic performance. Ask your child to solve the mathematical riddles and riddles presented in this article to keep them engaged with useful academic activities. 10 challenging math riddles with answers for Kids 1. A carton contains some apples that were divided into two equal parts and sold to two traders, Ttron and Tanema. Ttron had two fruit shops and decided to sell an equal number of apples in both A and B shops, respectively. Tanya visited Shop A and bought all the apples in the shop for her kids. But one apple remained between her children after splitting all the apples. Each kid has an apple, finds at least the number of apples in the carton? Description: Let's count the number of children X so, the number of apples purchased by Tanya = (X+1) the total number of apples in the shop A = (X+1) the total number of apples purchased by trader Tarun = 2 (X +1) the total number of apples per carton = 4 (X+1) now, at least no apples in the carton: We assume: X is not equal to 0 X 1 (Tanya does not have single children) X equals 2 (Tanya has at least 2 children) when X = 2 4 (X +1) = 4 (2 + 1) = 12 as a result, at least 12 apples 2. A monkey is trying to climb a coconut tree, he walks forward three steps and slids two steps down backwards. Each step forward is 30 cm and each lagging stage is 40 cm. How many steps are needed to climb a 100cm tree? Description: Every time the monkey tries to go up: climb upwards = 3 x 30cm = 90 cm (takes 3 steps) downward slip = 2 x 40cm = 80cm (takes 2 steps) The total number of steps taken per attempt forward = 3 steps + 2 steps = 5 steps effectively moves 10 cm upwards (90cm - 80cm = 10cm) 100cm/10cm = 10 so, the monkey needs to cover 10 x 5 steps = 50 steps to reach the top 3. A construction site requires at least 5 workers to get a job done in 12 days. How many days will it take if 12 workers are hired for a job? Description: Let X the work value be done let Y the number of days taken by 12 workers of the work equation done by 5 workers: X/5 = 12 days X = 60 equations of work done by 12 workers: X/12 = Y 60/12 = Y Y = 5 4. You got a pound of cotton and a pound of iron that weighs more? Description: 1 pound cotton = 1 pound iron pound is a unit of weight. 5. The total age of the girl and the mother is 55 years. The girl's age Age reversed. Find the mother and daughter's age if the mother is over 40. Mother is 41 and daughter 14 explain: Let's let the first digit of mother age X let the second digit of the mother's age Y so the mother's age is XY girls age YX let us assume X >Y, as the mother is always elderly More than the girl is given the sum of age with the equation: ((10x) + Y) + ((10Y) + X) = 55 11x + 11Y = 55 so the ages can be possible : Mother: 32 and Daughter: 23 Mother: 41 and Daughter: 14 As mentioned in the riddle, the mother is over 40 years of age so we choose a second solution. 6. You have 50 biscuits. How many times can you subtract 5 out of 50 biscuits? Description: Once just because there won't be 50 biscuits after that. As you subtract 5 biscuits it will be 45 and not the other 50. 7. Get an even number of 7 without adding, subtracting, multiplying, or dividing each number? Description: Seven - S = Even 8. It's 9 a.m., Rita studies for 2 hours, bathes for 1 hour and then eats lunch for 1 hour. How many hours before 9:00 a.m. tomorrow? Description: Rita takes 4 hours (1+2+1) to complete her study, bathing and eating meal. There are 24 hours between 9am today and 9am tomorrow. 24 hours - 4 hours = 20 hours 9. There are 8 apples, you take 4 rounds and then you return 1 apple. How many apples do you have? Description: You have 4 apples for yourself and return 1 apple so 4 - 1 = 3 apples 10. The speed of a train is 3 meters per second and it takes 10 seconds to pass a lamp. What's the length of the train? Description: The train covers 3m in 1 second so in 10 seconds it will cover = 3m x 10 seconds = 30 meters in 10 seconds, the train will cross the length of 30m lamps. You can find more math riddles and puzzles for your child in Cuemath. The platform offers kids custom math riddles, puzzles, simulations and games, to help develop their math talent as well as improve their academic performance. All of your child's fundamental mathematical problems will be addressed by the nation's top mathematics teachers. Sign up today to start your child's math journey. Conclude solving these challenging mathematical riddles with your child to understand their conceptual clarity. If your child is not doing well in mathematics, you can explore their shortcomings by analyzing their approach to solving these riddles. Sit down with your child while solving mathematical riddles to assess the ability to solve the problem. Share tips to help them solve many riddles properly and explain each answer to make sure your child never repeats the same mistakes while solving problems. Q.7. There are 511 oranges and 9 empty boxes. An orange dealer wants his son to put all 511 oranges in all nine boxes in such a way that if he wants from 1 to 511 oranges, his son should be able to Select them in terms of boxes. How did the boy put all the oranges in nine boxes, given that any number of oranges can be placed in a box? 1, 2, 4, 8, 16, 32, 64, 128, 256 orange dealer can ask for only 1 orange, so a box should contain 1 orange. He can want 2 oranges, so a box should contain 2 oranges. He can apply for 3 oranges, in that case box one and box two to 3 add. He can want 4 oranges, so a box called the third box should contain 4 oranges. Now using box number one, two and three containing oranges 1, 2 and 4 respectively, his son can give up to 7 oranges. Therefore, the front box should contain 8 oranges. Similarly, using the first four boxes containing 1, 2, 4 and 8 oranges, his son can give up to 15 oranges. Therefore, the fifth box must contain 16 oranges. You have to notice one thing until now that each box has ever included the power of 2 oranges. Therefore, the answer is 1, 2, 4, 8, 16, 32, 64, 128, 256. This is true for any number of oranges, here in our case only up to 511. In February 2014, I asked my subscribers for their favorite math puzzle. This collection is the result—a list of puzzles chosen by teachers and parents! This page lists more challenging puzzles. Easier is listed on this page. Missing $1 This is a famous and truly brain-bending riddle! It really fools you and makes you feel something not right - yet it can feel hard to put your finger on it and find error in reasoning. Three people rent a room for $30. Each they pay $10 each and go to the room. The owner found out he was charged too much and it was only going to be $25. He sends hop bells for $5 each and keeps people $1 and bellhop them $2 as they can't share it. So now each person has paid $9 for the room ($27 in total) and Bell Hop has $2... Where's the other $1??? Click here for answers $1.00 is not missed — this error is to try to add $27 and $2. $2 is the difference of $5 and $3 - it is not a real change in this transaction, but a change of change. People paid $30. They returned $5 as changed, but $2 of that would be changed back to the owner as the change changed. In the end, people have paid a total of $27, and the owner receives $30 −5+2 = $27, so all matches. Look at it this way: While Bell Hop goes down the stairs, the owner has $25,000, each of the three has $1.00 (x 3 = $3.00) and Bell Hop $2.00. $2 + $3 + $25 = $30. Then when Bell Hop returns $2 to the owner, the owner has $27 and the three have a total of $3. Or look at it this way: what goes back are the dollars 26, 27 and 28, and what brings back #29 #30. Yet another way to think about the answer to this riddle is to just pretend that bellhop refunds $3 to people (instead of giving them $5 and receiving back). If the lawyers went back $3 and took $1 each, then they spent exactly $27. Hide the answers as easy as pi the puzzles cut up the Greek letter Pi below into five pieces as shown. Then re-sort the five pieces to make a square. Is there more than one way? Here's the solution. Puzzle author: Stephen Froggatt was received the exponential deficit of this puzzle by Paula Tyroler (my race participant) from his friend in Prague. Just use paper and pencil (without a calculator or logarithmic table), determine which of the following phrases has a higher value: 101/10 or 31/3. See the solution answer: If we multiply each number by itself, the value will change, but not the relationship of numbers according to size. For example, if there is a > b, then a2 > b2 and one > bn. In other words, we can raise both sides of the same inequality (or equation) to any positive power and inequality (equality) will be maintained. So, if 101/10 > 31/3, then also (101/10)30 > (31/3)30. Now the left is (101/10)30 = 103 = 1,000. The right is (31/3)30 = 310. It's easy to see that this will be much more than 1,000 - just start multiplying 3 × 3 × 3 × 3... Use paper and pencil and it won't take too long to reach a number that is over 1,000. Or, simplify 310 as 95 and multiply 9 times on your own. If you calculate it in full, you will receive 310 = 59,049. So, from 310 > 103, then also 31/3 > 101/10. You can check that using calculator: 31/3 ≈ 1.442 and 101/10 ≈ 1.258. Hide the weight of the coin response this puzzle is a hard variety in easy riddles involving the weight of coins (or balls) using equal arm balance. You have 12 coins; one weighs a little less or a little more than the others. Using equal arm balance and only making three weighs, determine which one is different, and whether it's slightly lighter or heavier. The fact that you don't know is lighter or heavier up front makes this problem much more difficult than other similar problems. This is a very difficult puzzle, and the author will not post the solution online. You can email the author for the solution. Source: Steve Miller math riddles milk man dishes This puzzle is instructive in at least two ways: notation helps and helps work from both ends (according to the situation, desired result). Give students a day to chew on it. Originally delivered by Sam Lloyd (from the days of Lionman House, before the fridge). A lactating milker has two 10 gallons of milk (feathers). A housewife has a three-gallon (empty) peel. A housewife has a five-gallon (empty) peel. You can say three quarts and five pail quartets. it doesn t matter . Each chef wants two gallons (quart) of milk. The lactating container has no spare container and has no way of marking any containers. he doesnt want to throw milk away . How does he sell? The solution here is a solution: (10, 10, 0, 0) (7, 10, 3, 0) 5, 3, 5) (7, 8, 0, 5) (7, 8, 3, 2) (9, 8, 3, 0) (9, 8, 0, 3) (9, 6, 0, 5) (9, 6, 3, 2) (10,6, 2, 2) Note that don't let the vector help a lot. Then you can see that the second to last step should look like (n, 6, m, 2). Hiding the divisive response a teacher wrote a large number on the board asking students to say one by one about divisive people. The first student said: The number is divisive up to 2. The second student said: The number is divisive up to 3. The third student said: The number can be divided up to 4. . . (And so) the 30th student said: This number is divided into 31. The teacher then commented that exactly two students who spoke consecutively were speaking incorrectly. Which two students spoke incorrectly? The solution is clearly, since the two numbers are sequential, one of them is even and the other is odd. Let's say these two numbers were 5 and 6. This meant that the secret number was not divisive until 5 and nine to six. It also means that the number cannot be divisive by 10, 15, 20, 25 or by 12, 18, 24 or 30. So students who said it was divisive up to 10, 15, etc. were also wrong. Therefore, two numbers cannot be 5 and 6. Similarly, these two numbers cannot, say, be 8 and 9, because then students who said they could be divisive by 16, 24, 18 and 27 were wrong. So we can conclude that these two consecutive numbers cannot have a multiplier that is less than 31. This eliminates a large number: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 and 15. Could it be, say 20 and 21? That won't work, because if this secret IS number is divisive by 4 and 10, then up to 20 is also divisive. Similarly, since we know that the IS number can be divisive by all numbers from 2 to 15, it should also be divisive with 18, 20, 21, 22, 24, 26, 28 and 30. This leaves the following number pair: 16 & 17. or you can think about it like that . All prime numbers, except 2, are odd. Therefore, one number must be a strange prime, and the other should be the highest power 2 in the range. So the two required numbers 24 = 16 and 17 and two students who spoke incorrectly are 15 and 16. Hiding Monty Hall's answer is the problem of this very famous brain teaser in the form of a loose probability puzzle based on the American TV game program Let's Make a Deal and named after its main host, Monty Hall. The problem is a veridical paradox of the kind, because the result is so counterintuitive it can seem absurd, but nevertheful demonstrably true. Wikipedia has very interesting background details about this problem. Play Monty Hall online suppose you show up in a game, and you'll be given a three-door choice: behind a door is a car; behind the rest, goats. You choose a door, say number 3 and the host who knows what's behind the doors opens another door, says number one who has goats. Then he tells you: Do you want to choose Number two? Is it in your best interest to switch your choice? Your solution should switch. Keep in mind the host always opens a different door from the door chosen by the player and always reveals a goat—because he knows where the car is hidden. Participants who switch 2/3 chances to win the car, while participants who stick to their choice have only one 1/3 chance. One way to see this is to realize that, 2/3 of the time, the player's primary choice is a hidden goat door. When so, the host is forced to open another goat's door and hide the remaining closed door of the car. Switching can't only give the car a chance if the player chooses the right door (the car's hiding door) to start. But of course this will only happen 1/3 of the time. Hide interesting lemonkink puzzle response small brain teaser! i have two glasses the same size . One contains 100 ml of lemonade and the other contains 100 ml of ink. I take a spoonful of lemonade and I put it in the ink, and then I take a spoonful of that mixture and I play it again. Which glass currently contains the minimum contents of another one? The solution can be found in fun math. Funding for class outing this problem calls for efforts from different combinations, and it was sent to me actually as two different variations. Another variation had an animal fair where it cost a bull $10, a cow cost $2.50 and a calf cost $0.50. Fred has $100 and wants to buy 100 animals. class 8 is going to the planet . There is a $100 budget to go out, and the planet can accommodate 100 people. The admission price is set to: Adults $10 Chaperones: $2.50 Students: $0.50 Several senior students are going along to help teachers. What will be the desired number of teachers, shaparaks and students who if all 100 seats are to be filled and all $100 is to be spent? The solution of 4 teachers, 6 chaperones, 90 students hiding the answer of a car across the desert is a car to carry an important person across the desert. There are no gas stations in the desert, and the car only has enough space for gasoline to get it halfway through the desert. There are other identical cars that can pass their gasoline on to each other. How can we get this important person through the desert? The solution can be found once again in math is fun. Liars and Truth tellers - Logic puzzle again, very famous puzzles. The solution is very simple yet seems to evade common thought. Even after knowing the answer can seem difficult to sort through mentally and it shows how we tend to conditionally think in linear terms rather than approaching simple things in a simple manner. There is an island in the South Pacific, divided into two territories, the east and the west. Although it exists As for their appearance that shows the difference, it is widely known that natives born on the east side of the island always tell the truth about everything, while natives born on the west side always lie, without exception. (It has been argued that this habit is unrealistic being at an early age as part of the local 'West Side' religion, but this has not been confirmed since every time the West sider is asked about it they lie). One afternoon, in the capital city (which happens to be in the exact center of the island with equal land mass in both territories) a missionary from America sat on a bench in a relaxing shadow and noticed the other side of the road, a cottage-leaning native. Being a curious, missionary wondering which side of the island this native was originally from. While he was pondering on this, another native walked by deciding to relax and sit on the couch next to the missionary. As they spoke, the missionary expressed his curiosity about where the native was born across the road, so the native he was speaking offered him to find out for him. The native got up, crossed the road and two natives chatted for a minute. Then the native, who had crossed the road, returned and said to the missionary, He said that from the west side of the island. Was he telling the truth or lying? dont guess . You have to explain exactly and reasonably how you know for some if he is truthful or not... And yes, you have all the information you need to know! How do we know the solution he lied to? Think of these phrases: If you ask a truth-teller (east side) where he is from, he will tell the truth and say it is from the East Side.. On the other hand, if you ask a liar (west side) where he is from, he is going to lie, which is also from the East Side. So, regardless of where the native was from by the cottage, when asked, his answer should be that he is from the east side, but the messenger native said he was from the west side of the island, so he lied. Hide answers also see: favorite math puzzle for kids - easier puzzles collected than my quiz. Most only need four basic operations or even that, so they work well for primary school children and above. Up.

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