

Tricky Mathematical Puzzles With Answers


Tricky Maths Puzzle 2

$$\square + \square = 12$$

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9

2

**Can You
Solve This
Tricky 
Math Puzzle**

Tricky mathematical puzzles with answers are an exciting way to engage your mind and test your problem-solving skills. These puzzles come in various forms, from logic problems to number riddles, and they can be both entertaining and educational. In this article, we will explore some of the most challenging mathematical puzzles, provide detailed solutions, and explain the underlying concepts. Whether you are a math enthusiast or just looking to sharpen your skills, these puzzles are sure to provide a fun and stimulating experience.

Why Solve Mathematical Puzzles?

Mathematical puzzles are not just about finding the right answer; they encourage critical thinking, creativity, and perseverance. Here are some benefits of solving these types of puzzles:

- **Enhances Problem-Solving Skills:** Puzzles require you to think outside the box and approach problems from different angles.
- **Improves Logical Reasoning:** Many puzzles rely on logic, helping you develop your reasoning abilities.
- **Boosts Mental Agility:** Regularly engaging with puzzles can improve your cognitive function and mental agility.
- **Provides Entertainment:** Solving puzzles can be a fun way to pass the time, whether alone or with friends.

Tricky Mathematical Puzzles with Answers

Here, we present a selection of tricky mathematical puzzles along with their solutions and explanations.

Puzzle 1: The Missing Dollar Riddle

Three friends went to a restaurant and ordered a meal that cost \$30. They paid \$10 each. The waiter later realized there was a discount of \$5 on the bill, so he gave \$5 to the cashier to return to the friends. The waiter decided to keep \$2 for himself and gave \$3 back to the friends. Each friend ended up paying \$9 (totaling \$27), and the waiter has \$2, which makes \$29. Where is the missing dollar?

Answer: There is no missing dollar. The friends paid a total of \$27, out of which \$25 went to the restaurant and \$2 went to the waiter. The misdirection comes from adding the waiter's \$2 to the \$27 instead of subtracting it.

Puzzle 2: The Two Trains Problem

Two trains start from two different stations that are 300 miles apart and head towards each other. Train A travels at 60 mph, while Train B travels at 90 mph. How long will it take for the two trains to meet?

Answer: To find the time it takes for the two trains to meet, we first calculate their combined speed:

- Combined speed = Speed of Train A + Speed of Train B = 60 mph + 90 mph = 150 mph.

Now, we can use the formula:

- Time = Distance / Speed = 300 miles / 150 mph = 2 hours.

Thus, it will take 2 hours for the two trains to meet.

Puzzle 3: The Age Riddle

A father is three times as old as his son. In 12 years, the father will be twice as old as the son. How old are they now?

Answer: Let the son's current age be (x) . Therefore, the father's current age is $(3x)$.

In 12 years:

- Son's age = $(x + 12)$

- Father's age = $(3x + 12)$

According to the problem:

$[3x + 12 = 2(x + 12)]$

Solving this equation:

$[3x + 12 = 2x + 24]$

$[3x - 2x = 24 - 12]$

$[x = 12]$

So, the son is currently 12 years old, and the father is $(3 \times 12 = 36)$ years old.

Puzzle 4: The Coin Weighing Puzzle

You have 12 coins, and one of them is either heavier or lighter than the others. You have a balance scale and can only use it three times. How can you identify the odd coin and determine whether it is heavier or lighter?

Answer: Follow this strategy:

1. First Weighing: Divide the 12 coins into three groups of four coins each: Group A, Group B, and Group C. Weigh Group A against Group B.
 - If they balance, the odd coin is in Group C.
 - If they don't balance, you know the odd coin is in the heavier or lighter group.
2. Second Weighing: Take the group containing the odd coin (let's say Group A was heavier) and divide it into three coins (1, 2, 3) and leave one coin (4) aside. Weigh 1, 2, and 3 against 4 and another known good coin.
 - If they balance, then coin 4 is the odd coin.
 - If they don't balance, you can determine whether the odd coin is heavier or lighter based on which side is heavier.
3. Third Weighing: Now, you have narrowed it down to three coins. Weigh any two of them against each other.
 - If they balance, the third coin is the odd one.
 - If they don't balance, you can determine which coin is the odd one based on the previous weighings.

This method efficiently identifies the odd coin and determines if it is heavier or lighter.

Puzzle 5: The River Crossing Puzzle

A farmer needs to cross a river with a wolf, a goat, and a cabbage. He has a boat that can carry only himself and one other item. If left alone, the wolf will eat the goat, and the goat will eat the cabbage. How can the farmer get all three across the river safely?

Answer: The farmer can follow these steps:

1. Take the goat across the river first and leave it on the other side.
2. Go back alone and take the wolf across the river.
3. Leave the wolf on the other side but take the goat back with him to the original side.
4. Leave the goat and take the cabbage across the river.
5. Leave the cabbage with the wolf and go back alone to get the goat.
6. Finally, take the goat across the river.

At the end of these steps, all three (the wolf, the goat, and the cabbage) will be safely on the other side of the river.

Conclusion

Tricky mathematical puzzles with answers provide an excellent opportunity to exercise your brain and develop problem-solving skills. By practicing these

puzzles, you can enhance your logical reasoning, boost mental agility, and enjoy a fun challenge. Whether you solve them alone or share them with friends, these puzzles can be a fantastic way to engage with math in a creative and enjoyable way. So why not challenge yourself with these puzzles and see how many you can solve?

Frequently Asked Questions

What is the solution to the puzzle: If a rooster lays an egg on the peak of a slanted roof, which way does the egg roll?

Roosters don't lay eggs.

In a family of six members P, Q, R, S, T, and U, there are two married couples. If P is a teacher and R is T's sister, who is the doctor?

U is the doctor.

You have 10 apples and you take away 4. How many do you have?

You have 4 apples, the ones you took.

A farmer has 17 sheep, and all but 9 die. How many sheep does the farmer have left?

The farmer has 9 sheep left.

You have a 3-gallon jug and a 5-gallon jug. How can you measure out exactly 4 gallons of water?

Fill the 5-gallon jug and pour it into the 3-gallon jug until the 3-gallon jug is full, leaving you with 2 gallons in the 5-gallon jug.

If a plane crashes on the border of the United States and Canada, where do they bury the survivors?

You do not bury survivors.

If it takes 6 workers 8 hours to build a wall, how long will it take 12 workers to build the same wall?

It will still take 8 hours as the wall is already built.

How many times can you subtract 5 from 25?

Once, because after you subtract it, you are left with 20.

If you have a 12-liter jug and a 6-liter jug, how do you measure out exactly 6 liters?

Just fill the 6-liter jug completely.

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