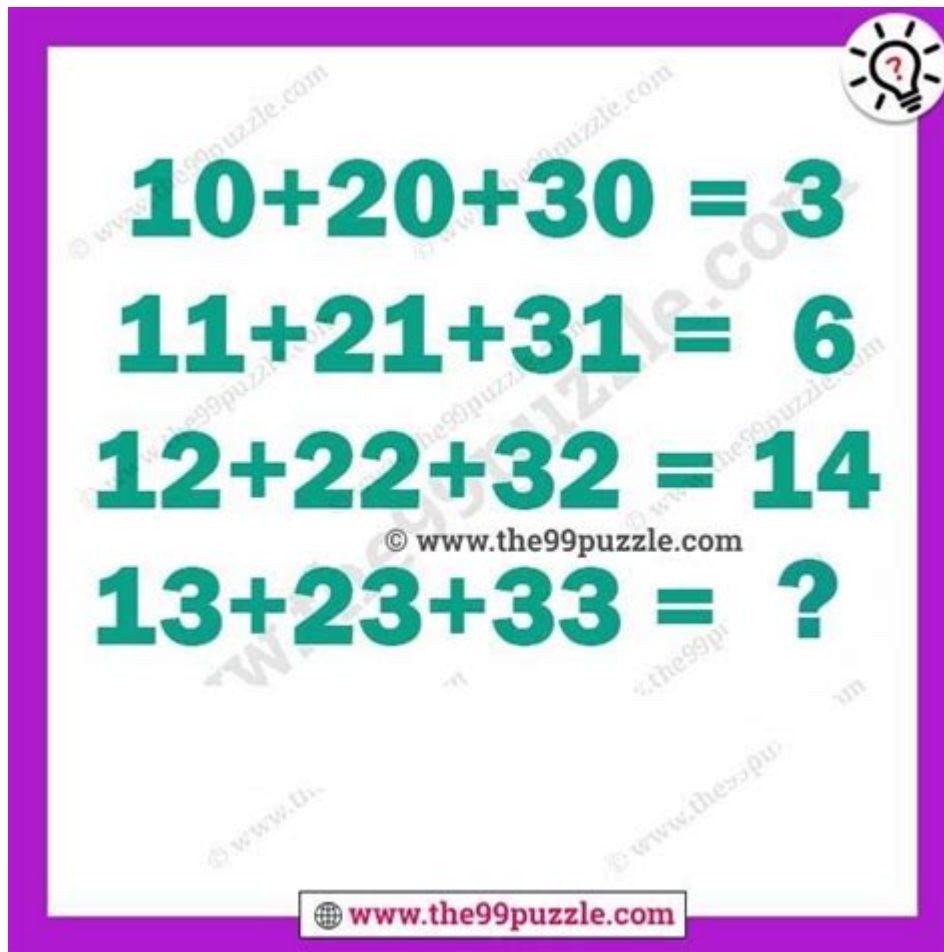


Tricky Maths Puzzles With Answers



TRICKY MATHS PUZZLES ARE A GREAT WAY TO CHALLENGE YOUR MIND AND ENHANCE YOUR PROBLEM-SOLVING SKILLS. WHETHER YOU'RE A STUDENT LOOKING TO SHARPEN YOUR MATHEMATICAL ABILITIES OR AN ADULT SEEKING A FUN WAY TO KEEP YOUR BRAIN ACTIVE, THESE PUZZLES CAN OFFER A DELIGHTFUL MIXTURE OF CHALLENGE AND ENTERTAINMENT. IN THIS ARTICLE, WE'LL EXPLORE VARIOUS TRICKY MATHS PUZZLES, PROVIDE SOLUTIONS, AND EXPLAIN THE REASONING BEHIND THEM. LET'S DIVE IN!

WHY ENGAGE WITH MATHS PUZZLES?

ENGAGING WITH MATHS PUZZLES HAS NUMEROUS BENEFITS:

- **IMPROVES PROBLEM-SOLVING SKILLS:** PUZZLES OFTEN REQUIRE CREATIVE THINKING AND DIFFERENT APPROACHES TO FIND A SOLUTION.
- **ENHANCES LOGICAL REASONING:** MANY PUZZLES DEPEND ON LOGICAL DEDUCTIONS, HELPING TO STRENGTHEN REASONING CAPABILITIES.
- **BOOSTS CONFIDENCE:** SUCCESSFULLY SOLVING A CHALLENGING PUZZLE CAN SIGNIFICANTLY BOOST SELF-CONFIDENCE IN MATHEMATICAL ABILITIES.
- **MAKES LEARNING FUN:** PUZZLES PROVIDE AN ENJOYABLE WAY TO LEARN AND PRACTICE MATHS CONCEPTS.

TRICKY MATHS PUZZLES

LET'S EXPLORE SOME INTRIGUING MATHS PUZZLES ALONG WITH THEIR SOLUTIONS. EACH PUZZLE IS DESIGNED TO STRETCH YOUR THINKING AND ENCOURAGE YOU TO APPROACH PROBLEMS FROM DIFFERENT ANGLES.

1. THE MISSING DOLLAR RIDDLE

PUZZLE: THREE FRIENDS CHECK INTO A HOTEL ROOM THAT COSTS \$30. THEY EACH CONTRIBUTE \$10. LATER, THE HOTEL MANAGER REALIZES THAT THERE WAS A SPECIAL RATE THAT ONLY COST \$25. HE GIVES \$5 TO THE BELLBOY TO RETURN TO THE FRIENDS. THE BELLBOY, HOWEVER, DECIDES TO KEEP \$2 FOR HIMSELF AND GIVES EACH FRIEND \$1 BACK. NOW, EACH FRIEND HAS PAID \$9 (TOTALING \$27), AND THE BELLBOY HAS \$2, WHICH SUMS UP TO \$29. WHAT HAPPENED TO THE MISSING DOLLAR?

SOLUTION:

THIS PUZZLE PLAYS WITH THE WAY WE FRAME THE PROBLEM. THE FRIENDS INITIALLY PAID \$30, AND THE HOTEL COST \$25. THIS MEANS THE HOTEL MADE \$25, AND THE BELLBOY KEPT \$2, TOTALING \$27. THE REMAINING \$3 IS WHAT WAS RETURNED TO THE FRIENDS. THERE IS NO MISSING DOLLAR; THE MISLEADING PHRASING CAUSES CONFUSION.

2. THE RIVER CROSSING PUZZLE

PUZZLE: A FARMER NEEDS TO CROSS A RIVER WITH A WOLF, A GOAT, AND A CABBAGE. HE HAS A BOAT, BUT IT CAN ONLY CARRY HIM AND ONE ITEM AT A TIME. IF THE WOLF IS LEFT ALONE WITH THE GOAT, IT WILL EAT THE GOAT. IF THE GOAT IS LEFT ALONE WITH THE CABBAGE, IT WILL EAT THE CABBAGE. HOW CAN THE FARMER GET ALL THREE ACROSS THE RIVER SAFELY?

SOLUTION:

1. THE FARMER TAKES THE GOAT ACROSS THE RIVER FIRST.
2. HE RETURNS ALONE AND TAKES THE WOLF ACROSS.
3. HE LEAVES THE WOLF ON THE OTHER SIDE BUT TAKES THE GOAT BACK WITH HIM.
4. HE LEAVES THE GOAT ON THE ORIGINAL SIDE AND TAKES THE CABBAGE ACROSS.
5. FINALLY, HE RETURNS ALONE TO GET THE GOAT AND BRINGS IT ACROSS.

NOW, ALL THREE ARE SAFELY ON THE OTHER SIDE.

3. THE TWO TRAINS PROBLEM

PUZZLE: TWO TRAINS ARE 100 MILES APART AND HEADING TOWARDS EACH OTHER AT SPEEDS OF 50 MILES PER HOUR. A BIRD FLIES FROM ONE TRAIN TO THE OTHER AT A SPEED OF 75 MILES PER HOUR. WHEN THE BIRD REACHES THE SECOND TRAIN, IT TURNS AROUND AND FLIES BACK TO THE FIRST TRAIN. THIS CONTINUES UNTIL THE TRAINS COLLIDE. HOW FAR DOES THE BIRD FLY BEFORE THE TRAINS MEET?

SOLUTION:

FIRST, CALCULATE THE TIME UNTIL THE TRAINS MEET. SINCE THEY ARE MOVING TOWARDS EACH OTHER AT A COMBINED SPEED OF 100 MILES PER HOUR (50 MPH + 50 MPH), THEY WILL MEET IN 1 HOUR (100 MILES / 100 MPH). DURING THAT HOUR, THE BIRD, FLYING AT 75 MILES PER HOUR, WILL COVER 75 MILES.

4. THE HOURGLASS CHALLENGE

PUZZLE: YOU HAVE A 7-MINUTE HOURGLASS AND AN 11-MINUTE HOURGLASS. HOW CAN YOU MEASURE EXACTLY 15 MINUTES USING THESE TWO HOURGLASSES?

SOLUTION:

1. START BOTH HOURGLASSES AT THE SAME TIME.
2. WHEN THE 7-MINUTE HOURGLASS RUNS OUT, FLIP IT IMMEDIATELY (7 MINUTES ELAPSED).
3. WHEN THE 11-MINUTE HOURGLASS RUNS OUT, FLIP IT IMMEDIATELY (11 MINUTES ELAPSED). AT THIS POINT, THE 7-MINUTE HOURGLASS HAS 3 MINUTES OF SAND LEFT.
4. WHEN THE SAND RUNS OUT IN THE 7-MINUTE HOURGLASS, 14 MINUTES HAVE ELAPSED.
5. FLIP THE 7-MINUTE HOURGLASS AGAIN (1 MINUTE LEFT IN THE 11-MINUTE HOURGLASS).
6. WHEN THE 7-MINUTE HOURGLASS RUNS OUT AGAIN, EXACTLY 15 MINUTES WILL HAVE PASSED.

5. THE AGE PUZZLE

PUZZLE: A FATHER IS THREE TIMES AS OLD AS HIS SON. IN 12 YEARS, HE WILL BE TWICE AS OLD AS HIS SON. HOW OLD ARE THEY NOW?

SOLUTION:

LET THE SON'S CURRENT AGE BE (x) . THEN THE FATHER'S AGE IS $(3x)$. IN 12 YEARS, THE SON'S AGE WILL BE $(x + 12)$, AND THE FATHER'S AGE WILL BE $(3x + 12)$.

SET UP THE EQUATION BASED ON THE FUTURE AGES:

$$\begin{aligned} &[\\ 3x + 12 &= 2(x + 12) \\ &] \end{aligned}$$

EXPANDING THIS GIVES:

$$\begin{aligned} &[\\ 3x + 12 &= 2x + 24 \\ &] \end{aligned}$$

SUBTRACT $(2x)$ FROM BOTH SIDES:

$$\begin{aligned} &[\\ x + 12 &= 24 \\ &] \end{aligned}$$

SUBTRACT 12 FROM BOTH SIDES:

$$\begin{aligned} &[\\ x &= 12 \\ &] \end{aligned}$$

THUS, THE SON IS 12 YEARS OLD, AND THE FATHER IS $(3 \times 12 = 36)$ YEARS OLD.

CONCLUSION

TRICKY MATHS PUZZLES ARE NOT ONLY ENTERTAINING BUT ALSO SERVE AS VALUABLE EXERCISES FOR ENHANCING COGNITIVE ABILITIES AND PROBLEM-SOLVING SKILLS. THE PUZZLES WE'VE EXPLORED ILLUSTRATE THE DIVERSE WAYS IN WHICH MATHS CAN CHALLENGE OUR THINKING.

WHETHER YOU'RE SHARING THESE PUZZLES WITH FRIENDS, USING THEM IN A CLASSROOM SETTING, OR SIMPLY ENJOYING THEM ON YOUR OWN, THEY OFFER A FANTASTIC OPPORTUNITY TO ENGAGE WITH MATHEMATICAL CONCEPTS IN A FUN AND STIMULATING WAY. REMEMBER, THE KEY TO SOLVING THESE PUZZLES OFTEN LIES IN LOOKING AT THE PROBLEM FROM DIFFERENT PERSPECTIVES AND THINKING CREATIVELY. SO, KEEP PRACTICING, AND ENJOY THE THRILL OF CRACKING THOSE TRICKY MATHS PUZZLES!

FREQUENTLY ASKED QUESTIONS

WHAT IS THE SUM OF ALL NUMBERS FROM 1 TO 100 IF YOU CAN ONLY USE A

FORMULA TO CALCULATE IT?

5050, USING THE FORMULA $N(N+1)/2$ WHERE $N=100$.

IF YOU HAVE 7 APPLES AND YOU TAKE AWAY 4, HOW MANY DO YOU HAVE?

YOU HAVE 4 APPLES, BECAUSE THOSE ARE THE ONES YOU TOOK.

A FARMER HAS 17 SHEEP, AND ALL BUT 9 DIE. HOW MANY ARE LEFT?

9 SHEEP ARE LEFT.

IF TWO'S COMPANY AND THREE'S A CROWD, WHAT ARE FOUR AND FIVE?

NINE.

HOW MANY TIMES CAN YOU SUBTRACT 5 FROM 25?

ONCE, BECAUSE AFTER YOU SUBTRACT IT, YOU ARE LEFT WITH 20.

WHAT IS HALF OF TWO PLUS TWO?

HALF OF TWO IS 1, AND ADDING TWO GIVES YOU 3.

IF A ROOSTER LAYS AN EGG ON THE TOP OF A BARN, WHICH WAY DOES IT ROLL?

ROOSTERS DON'T LAY EGGS.

YOU HAVE A 3-GALLON JUG AND A 5-GALLON JUG, AND YOU NEED TO MEASURE OUT EXACTLY 4 GALLONS. HOW DO YOU DO IT?

FILL THE 5-GALLON JUG, POUR IT INTO THE 3-GALLON JUG UNTIL THE 3-GALLON JUG IS FULL. THIS LEAVES YOU WITH 2 GALLONS IN THE 5-GALLON JUG. EMPTY THE 3-GALLON JUG, THEN POUR THE 2 GALLONS FROM THE 5-GALLON JUG INTO THE 3-GALLON JUG. FINALLY, FILL THE 5-GALLON JUG AGAIN AND POUR 1 GALLON INTO THE 3-GALLON JUG (WHICH ALREADY HAS 2 GALLONS) TO MAKE 4 GALLONS.

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