

Mathematics Brain Teasers

Mathletics

Ages: 5 -7

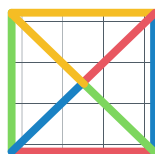
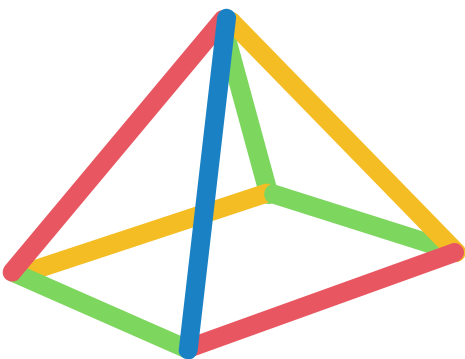
Keep your students engaged with mathematics while they learn from home! These mathematics brain teasers are an engaging way to break up the screen time while developing critical and lateral thinking skills.

Visual Puzzles

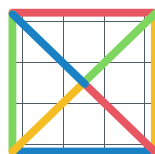
Puzzle 1: How many numbers can you find below?



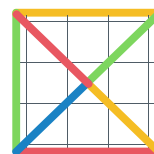
Puzzle 2: Which answer shows the top view?



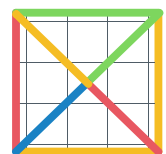
A



B

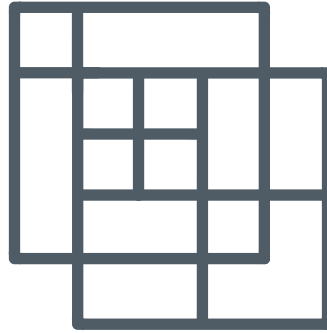
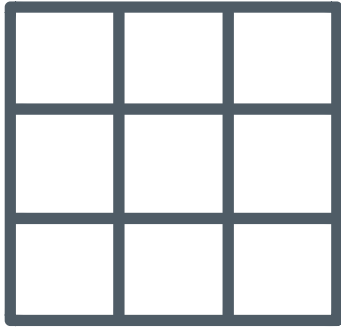


C

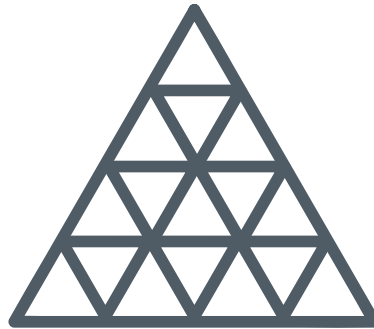


D

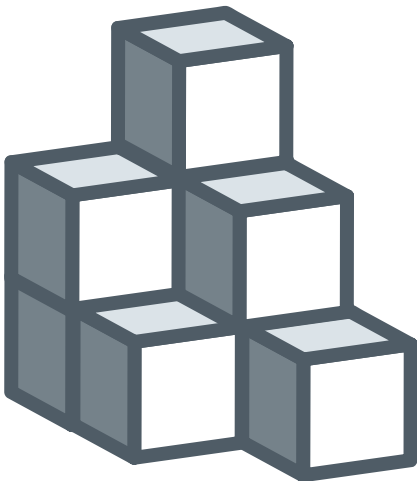
Puzzle 3: How many squares can you count?



Puzzle 4: How many triangles can you count?



Puzzle 5: How many blocks do you think there are?



Mathematics

Brain Teasers

Mathletics

Ages: 8-10

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Word Riddles

1. How many people is "two pairs of twins twice"?

2. Tim goes to the shop and buys a kilo of feathers and a kilo of meat. Which one weighs more?

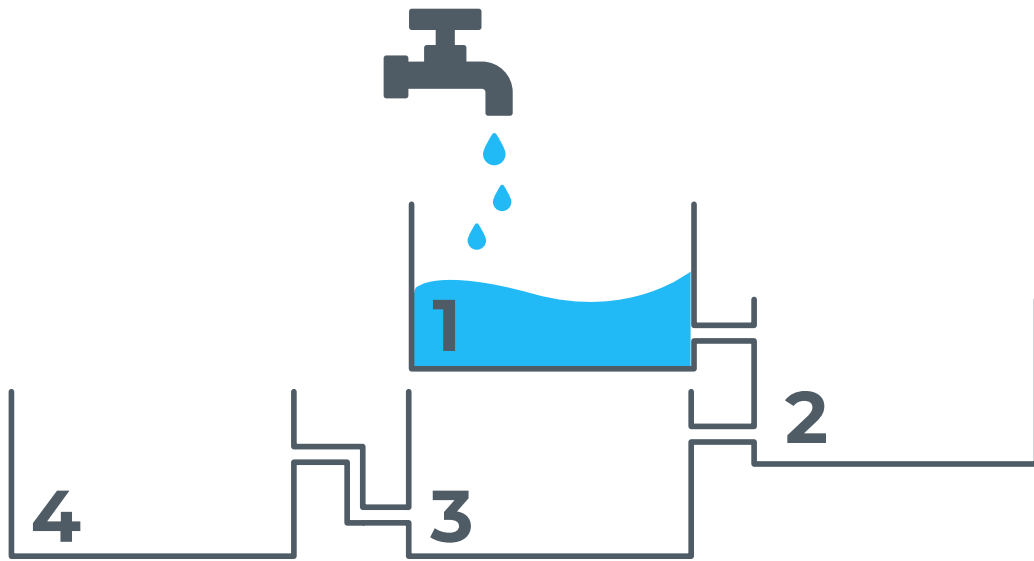
3. When Sam was 12 years old, his sister Daisy was half his age. If Sam is now 20 years old, how old is Daisy?

4. Tina has a bucket of milk and wants to measure out exactly 1 litre. If she gives you a bottle that shows 5 litres and another bottle that shows 3 litres, can you help her?

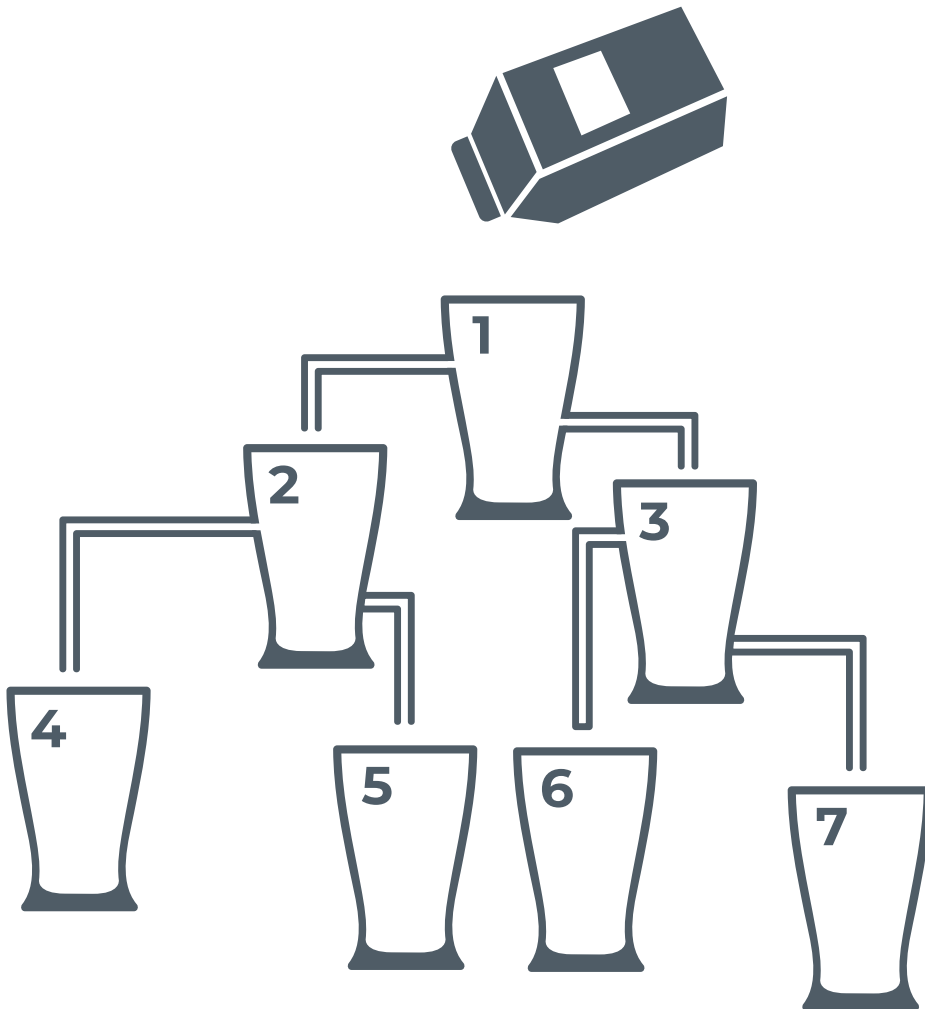
5. There are 100 houses on the street and Tess is delivering newspapers to each house on the street. How many times does she deliver a paper to houses with the number 2 in it?

Visual Puzzles

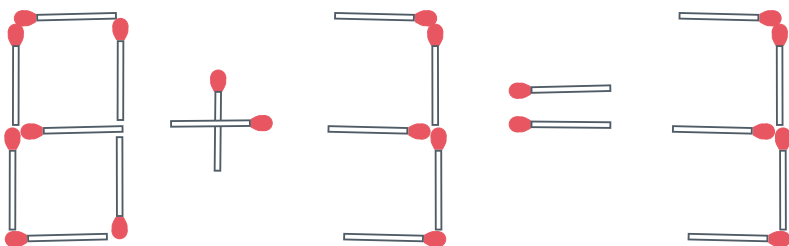
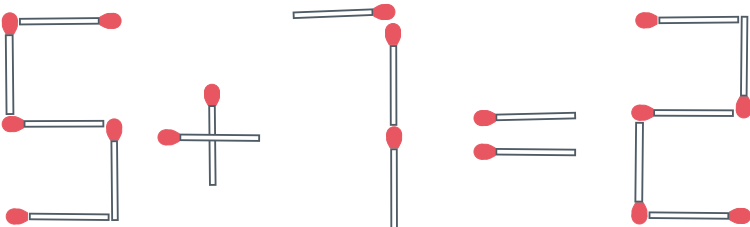
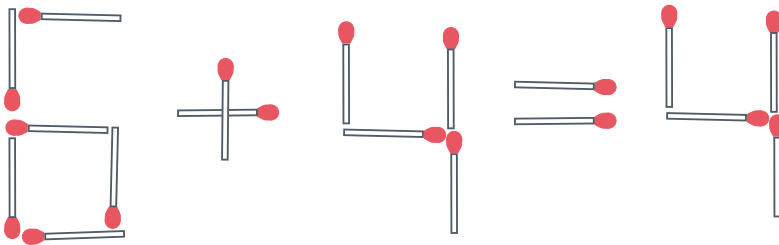
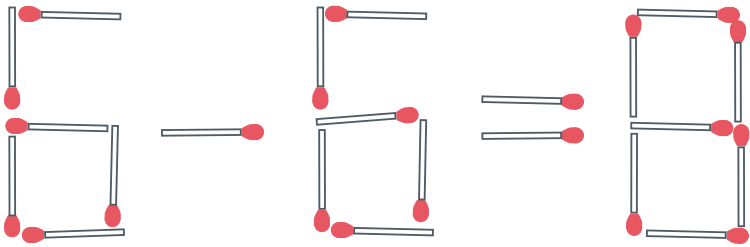
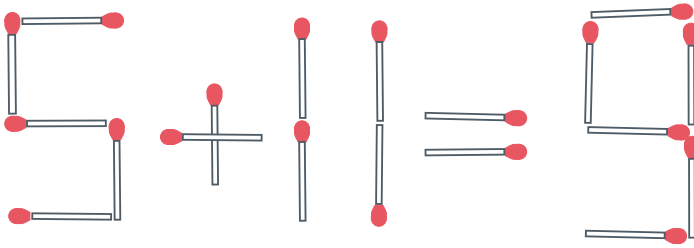
Puzzle 1: Which tank is going to fill up first?



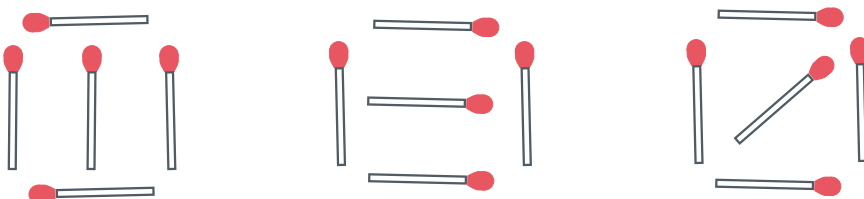
Puzzle 2: Which glass is going to fill up first?



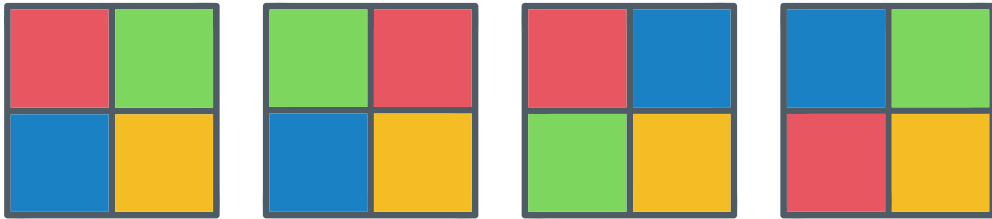
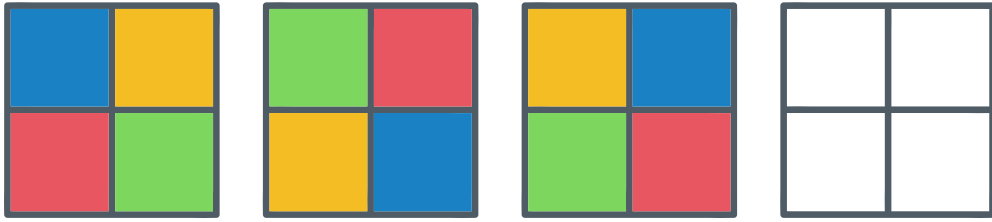
Puzzle 3: Can you move one matchstick in these equations to make them true?



BONUS ONE! Can you remove exactly 6 matches below to make the word ten?



Puzzle 4: What comes next in the pattern?



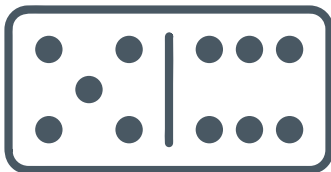
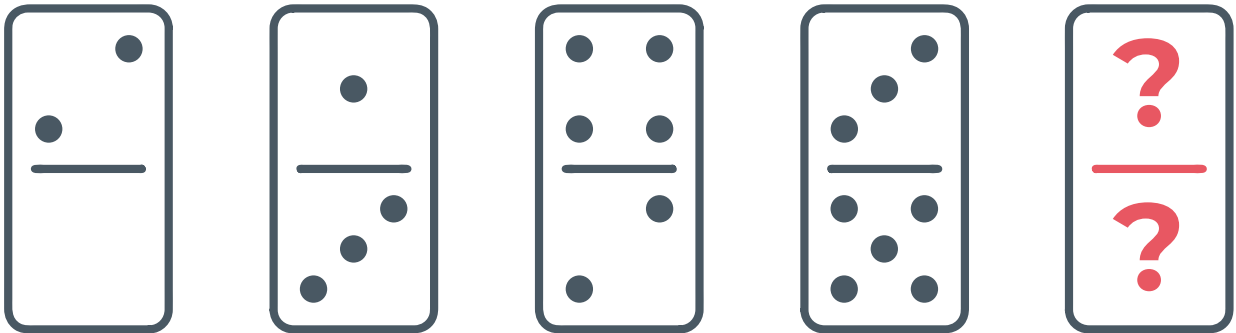
A

B

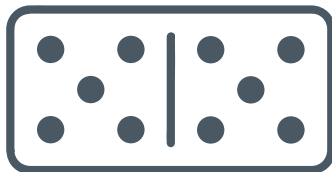
C

D

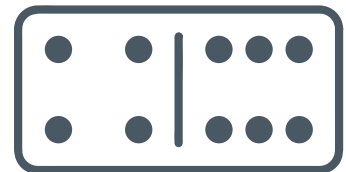
Puzzle 5: Which domino completes the pattern?



A



B



C

Mathematics

Brain Teasers

Ages: 11-13

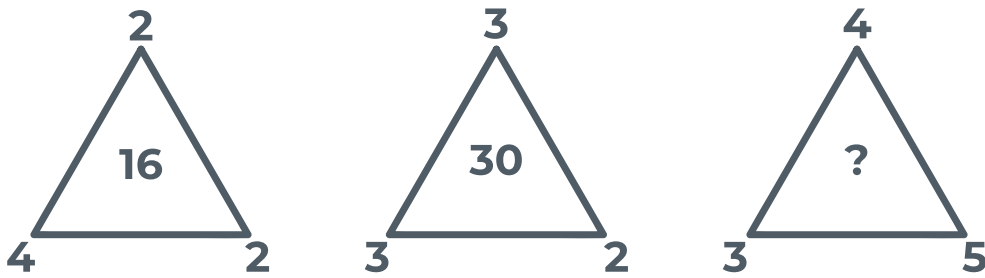
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Word Riddles

- 1. If you look at the numbers on a phone keypad and multiply them all - what number do you get?**
- 2. It takes 18 men, 4 months to build a house. If there were only 9 men, how long would it take to build that same house?**
- 3. If you multiply me by any number, the answer will always remain the same. Who am I?**
- 4. Matt and Ben want to go to the cinema to see a movie that starts at 3.30 pm. Matt lives further away from the cinema than Ben and both boys plan to walk there. Matt leaves his house 15 minutes before Ben, but they meet at a park along the way. When they meet, who is closer to the cinema?**
- 5. Your parents have 6 sons including you. Each son has a sister. How many people in the family?**

Visual Puzzles

Puzzle 1: What number is missing?



Puzzle 2: Use each of these numbers (1, 2, 3, 4, 5, 6) just once to fill in the slots below to make a correct equation:

$$\begin{array}{r} _ _ _ _ \\ \times _ _ _ \\ \hline _ _ _ _ _ _ _ _ \\ _ _ _ _ \end{array}$$

Puzzle 3: What do my drinks add up to?


$$+ + + + = 28$$


$$+ + + 17$$

$$+ = 9$$

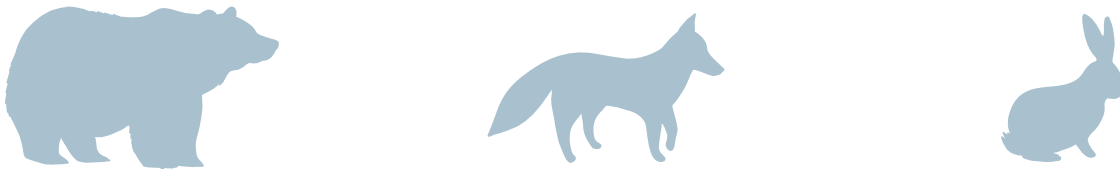
$$+ + - = ?$$

Puzzle 4: How much does each animal weigh?

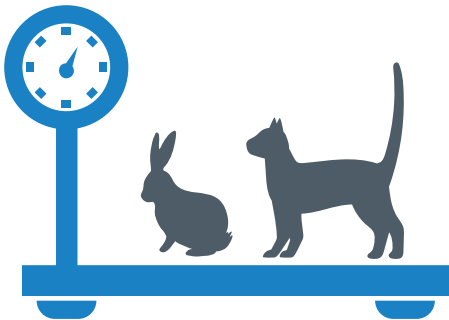

$$+ = 120\text{kg}$$


$$+ \text{ bear silhouette} + 70\text{kg}$$

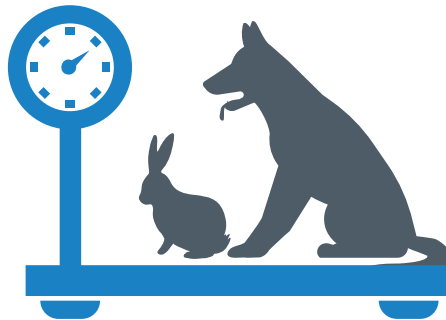

$$+ \text{ fox silhouette} + \text{ rabbit silhouette} = 90\text{kg}$$



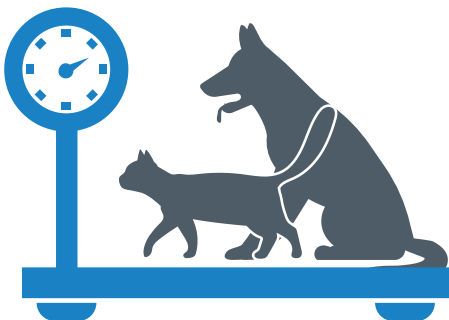
Puzzle 5: What is the weight of the cat, dog and rabbit together?



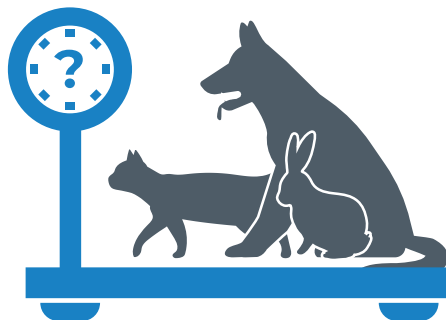
10kg



20kg



24kg



??kg

Puzzle 6: What time is it on the last clock?



:

Puzzle 7: Can you solve these brain teasers?

IF

$$\text{AT} = 4$$

$$\text{CAT} = 6$$

$$\text{CROW} = 8$$

$$\text{BRAIN} = 10$$

THEN

$$\text{TWISTER} = ?$$

IF

$$2 \times 1 = 23$$

$$2 \times 3 = 65$$

$$4 \times 2 = 86$$

$$5 \times 4 = 209$$

THEN

$$6 \times 3 = ?$$

IF

$$2 = 2$$

$$3 = 6$$

$$4 = 12$$

$$5 = 20$$

$$6 = 30$$

THEN

$$8 = ?$$

Puzzle 8: Solve the following.

$$\text{Apple} + \text{Apple} + \text{Apple} = 30$$

$$\text{Apple} + \text{Banana} + \text{Banana} = 18$$

$$\text{Banana} - \text{Strawberry} = 2$$

$$\text{Strawberry} + \text{Apple} + \text{Banana} = ?$$

Ages 5-7

Puzzle 1 – 10 numbers

Puzzle 2 – C

Puzzle 3 – 14 Squares and 17 Squares

Puzzle 4 – 35 Triangles and 28 Triangles

Puzzle 5 – 9 Blocks

Ages 8-10

Word Riddles

1. 8 people
2. They weigh the same amount
3. Daisy is 14 years old
4. First fill up the 3 litre bottle and pour the milk into the 5 litre bottle. Fill up the 3 litre bottle again and pour it into the 5 litre bottle until it is full. You'll be left with 1 litre.
5. 18 times

Visual Puzzles

Puzzle 1 – The 3rd tank will fill up first, then the 4th, 2nd and 1st.

Puzzle 2 – Glass number 7 will fill up first

Puzzle 3 –

- Move a matchstick in 11 to turn the equation into $5+4=9$
- Remove matchstick in 8 to turn equation into $6-6=0$
- Move a matchstick in the number 6 to turn the equation into $0+4=4$ or move a matchstick from the 6 to the 4 in the answer to turn the equation into $5+4=9$
- Move a matchstick in + sign to the number 5 to make the equation $9-7=2$
- Remove matchstick in 8 to make the equation $0+3=3$
- You can make the word 'ten' by removing the bottom matchstick and two side matchsticks from the first letter. The far-right matchstick on the second letter and the top and bottom matchstick on the third letter.

Puzzle 4 – A

Puzzle 5 - C

Ages 11-13

Word Riddles

1. 1.0
2. 2.8 months
3. 3.Zero
4. 4.Neither because they are meeting at the same park so they both an equal distance away from the cinema
5. 5.9 family members

Visual Puzzles

Puzzle 1 – 60

Puzzle 2 – $54 \times 3 = 162$

Puzzle 3 – 9

Puzzle 4 – The bear is 60kg, the rabbit is 10kg and the fox is 20kg

Puzzle 5 – The dog weighs 17kg, the cat and rabbit together weigh 10 kg, together they weigh 27kg.

Puzzle 6 – 9 o'clock

Puzzle 7 – TWISTER = 14, $6 \times 3 = 189$, $8 = 56$

Puzzle 8 – The answer is 16