

# Mathematics Brain Teasers

Mathletics

**Ages: 5 -7**

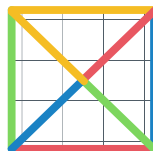
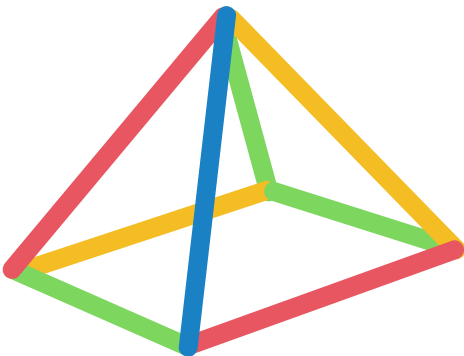
Keep your students engaged with mathematics! These brain teasers are an engaging way to break up the day while developing critical and lateral thinking skills.

## Visual Puzzles

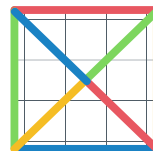
Puzzle 1: How many numbers can you find below?



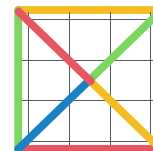
Puzzle 2: Which answer shows the top view?



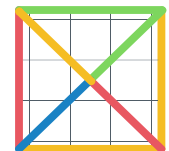
A



B

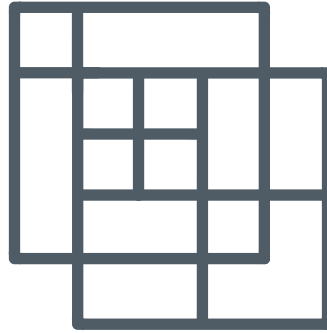
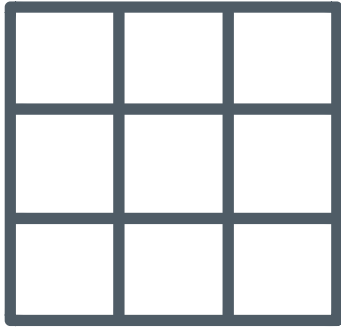


C

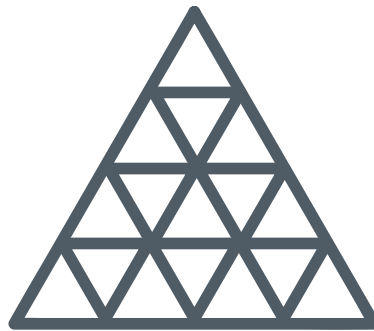


D

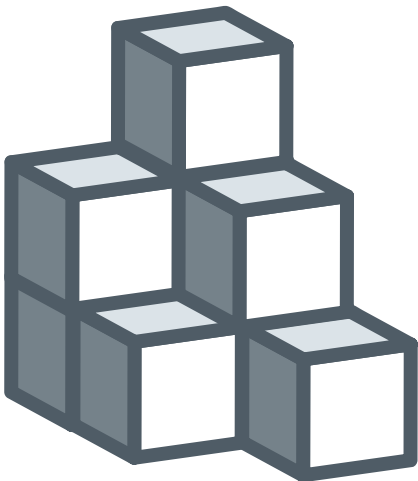
**Puzzle 3: How many squares can you count?**



**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**

Keep your students engaged with mathematics! These brain teasers are an engaging way to break up the day while developing critical and lateral thinking skills.

## Word Riddles

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

2. Tim goes to the North Pole and buys a kilo of reindeer food and a kilo of peppermint.  
Which one weighs more?

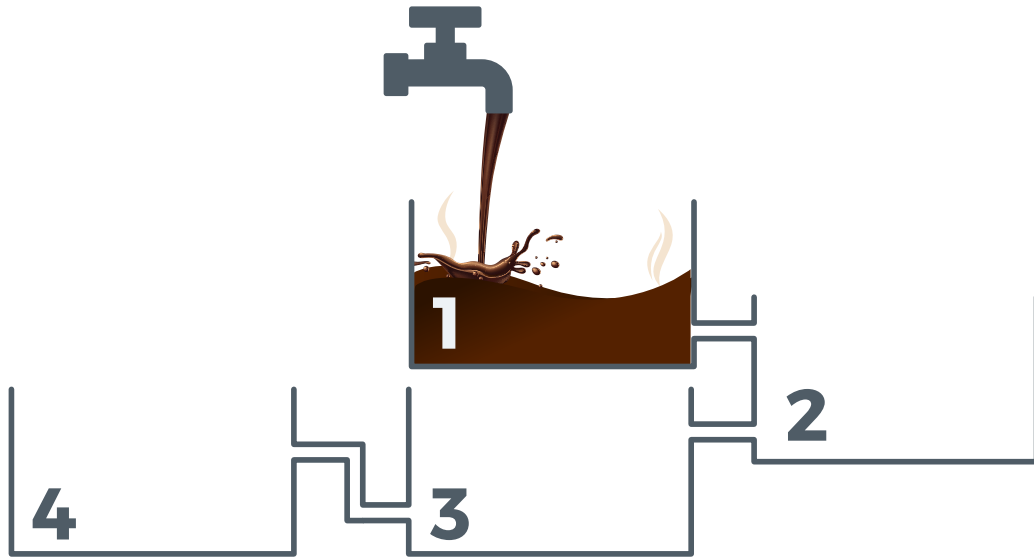
3. When Jingle was 12 years old, his sister Holly was half his age.  
If Jingle is now 20 years old, how old is Holly?

4. Tina has a bucket of hot chocolate 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?

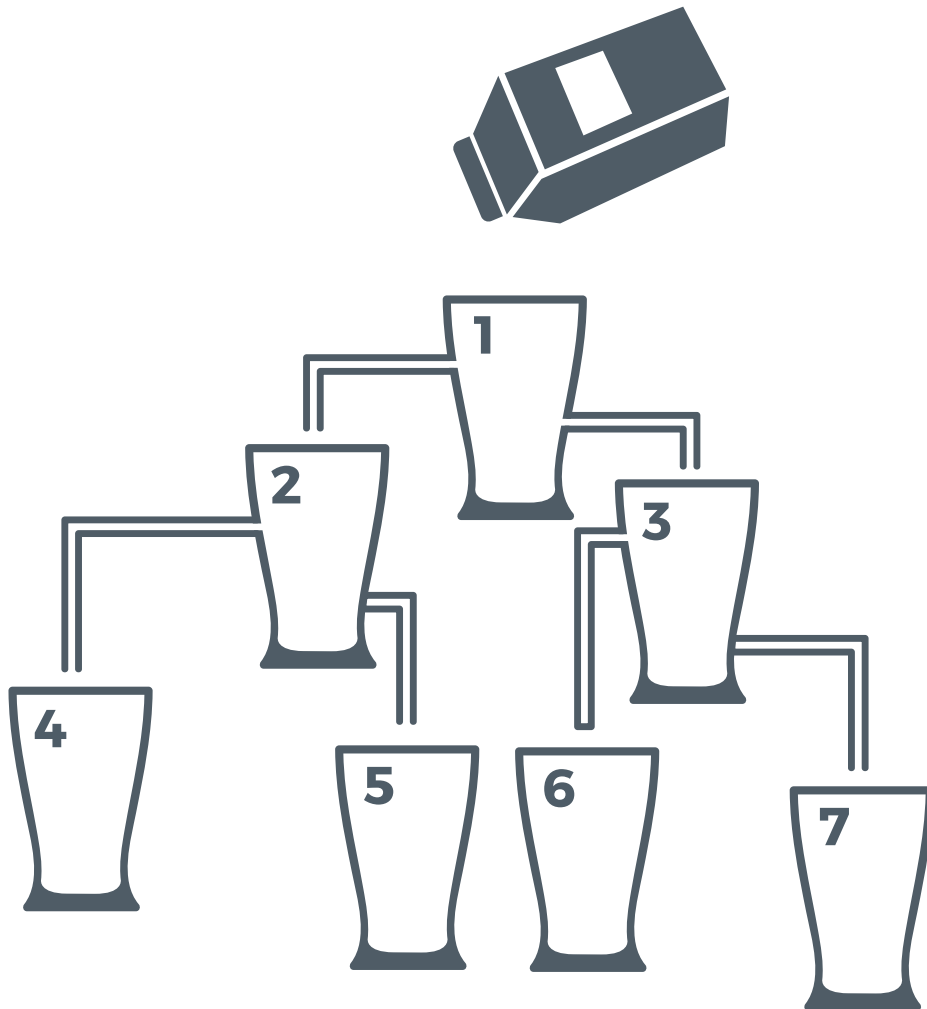
5. There are 100 houses on the street and Tess is delivering holiday cards to each house on the street. How many times does she deliver a card to houses with the number 2 in it?

## Visual Puzzles

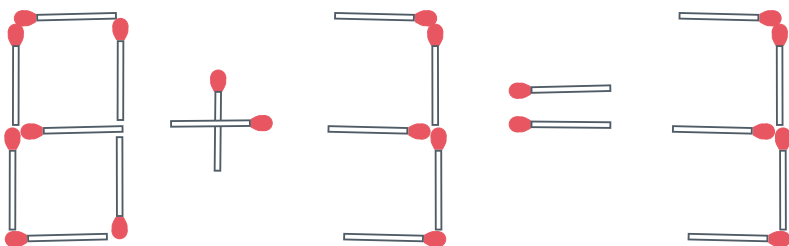
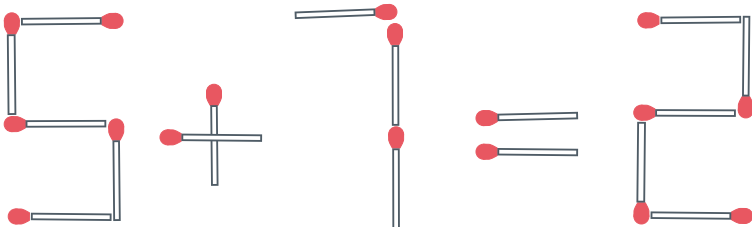
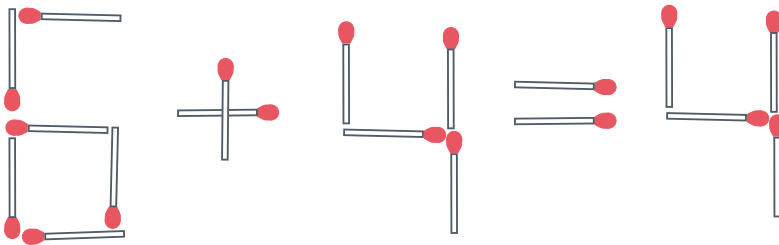
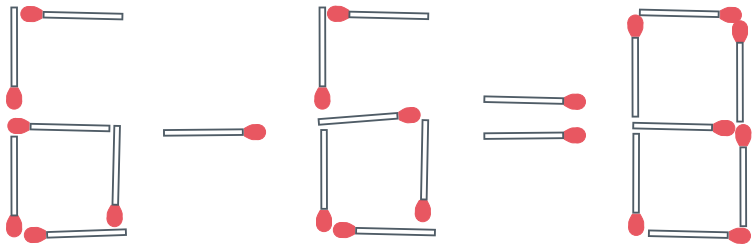
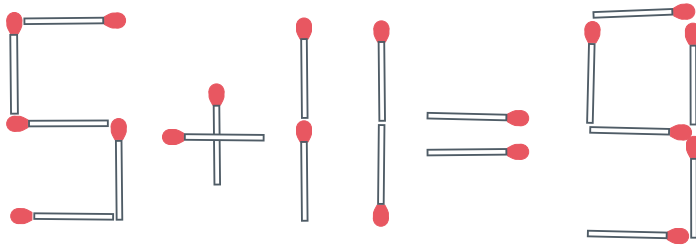
Puzzle 1: Which tank of hot chocolate is going to fill up first?



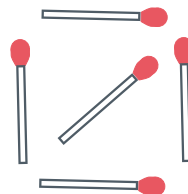
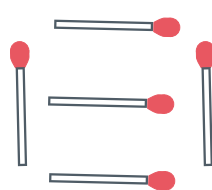
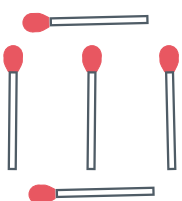
Puzzle 2: Which glass is going to fill up first?



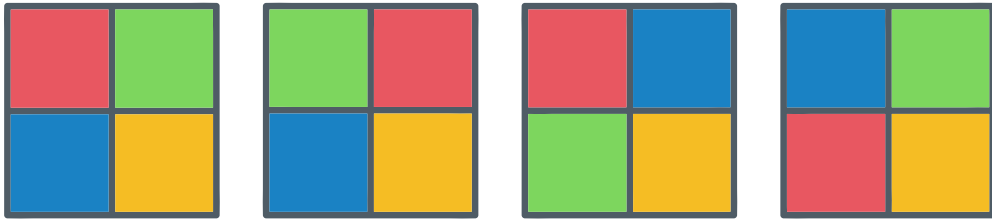
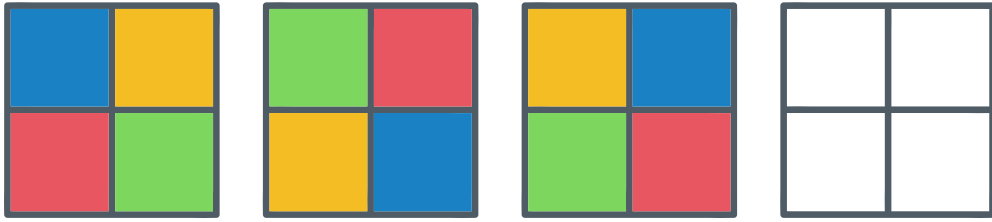
**Puzzle 3: Can you move one matchstick in these equations to make them true?**



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



**Puzzle 4: What comes next in the pattern?**



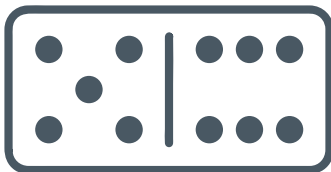
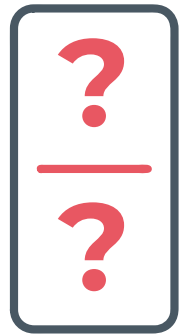
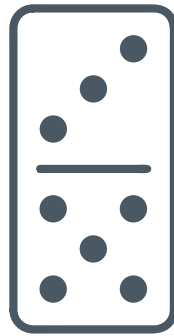
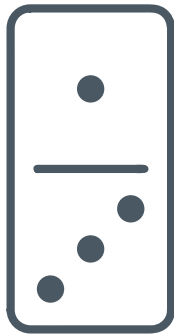
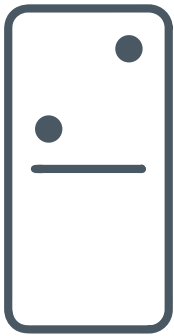
A

B

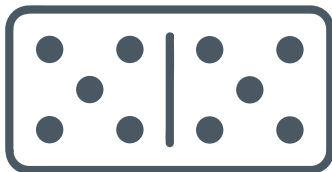
C

D

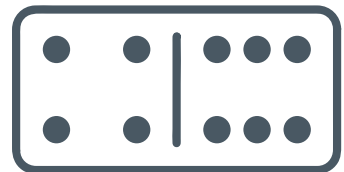
**Puzzle 5: Which domino completes the pattern?**



A



B



C

# Mathematics Brain Teasers

Mathletics

**Ages: 11-13**

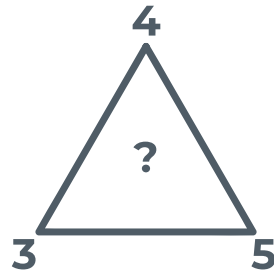
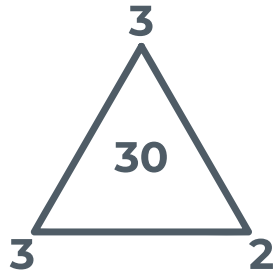
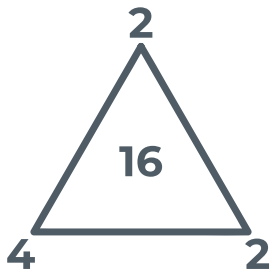
Keep your students engaged with mathematics! These brain teasers are an engaging way to break up the day while developing critical and lateral thinking skills.

## 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 snowmen, 4 months to build an igloo. If there were only 9 snowmen, how long would it take to build that same igloo?**
- 3. If you multiply me by any number, the answer will always remain the same. Who am I?**
- 4. Frosty and Snowflake want to go to the cinema to see a movie that starts at 3.30 pm. Frosty lives further away from the cinema than Snowflake and both plan to walk there. Frosty leaves his house 15 minutes before Snowflake, 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?

$4 \times \text{Glass with straw and candy cane} = 28$


$2 \times \text{Coffee cup} + \text{Glass with straw and candy cane} = 17$


$\text{Coffee cup} + \text{Mug with ice} = 9$

$\text{Glass with straw and candy cane} + \text{Coffee cup} + \text{Mug with ice} - \text{Glass with straw and candy cane} = ?$

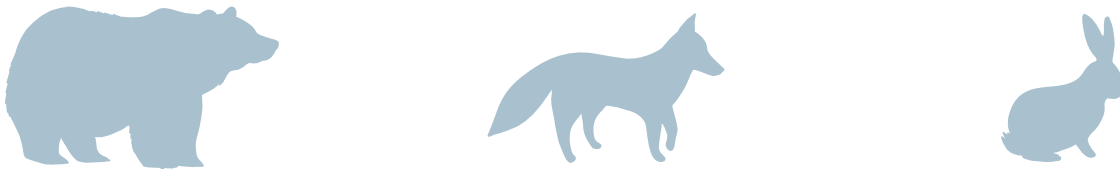


**Puzzle 4: How much does each animal weigh?**

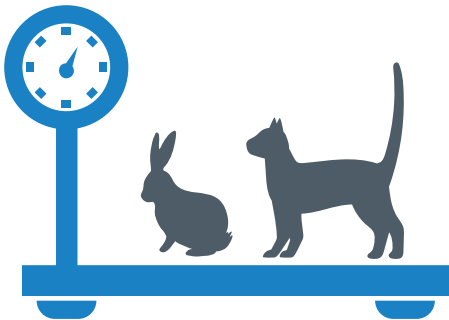

$$+ = 120\text{kg}$$


$$+ 70\text{kg}$$

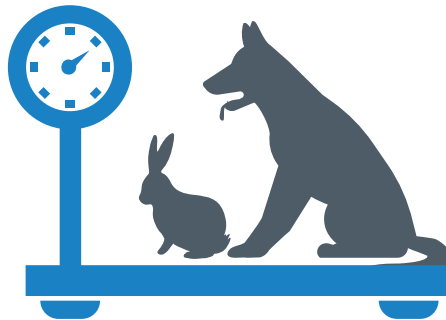

$$= 90\text{kg}$$



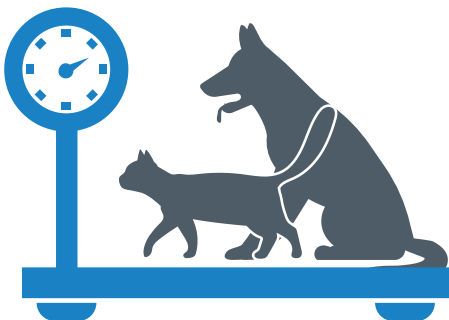
**Puzzle 5: What is the weight of the cat, dog and rabbit together?**



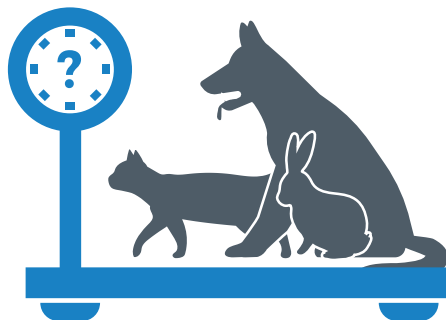
10kg



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.

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

$$\text{Snowflake} + \text{Gloves} + \text{Gloves} = 18$$

$$\text{Gloves} - \text{Tree} = 2$$

$$\text{Tree} + \text{Snowflake} + \text{Gloves} = ?$$

## 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. Holly is 14 years old
4. First fill up the 3 litre bottle and pour the hot chocolate 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