

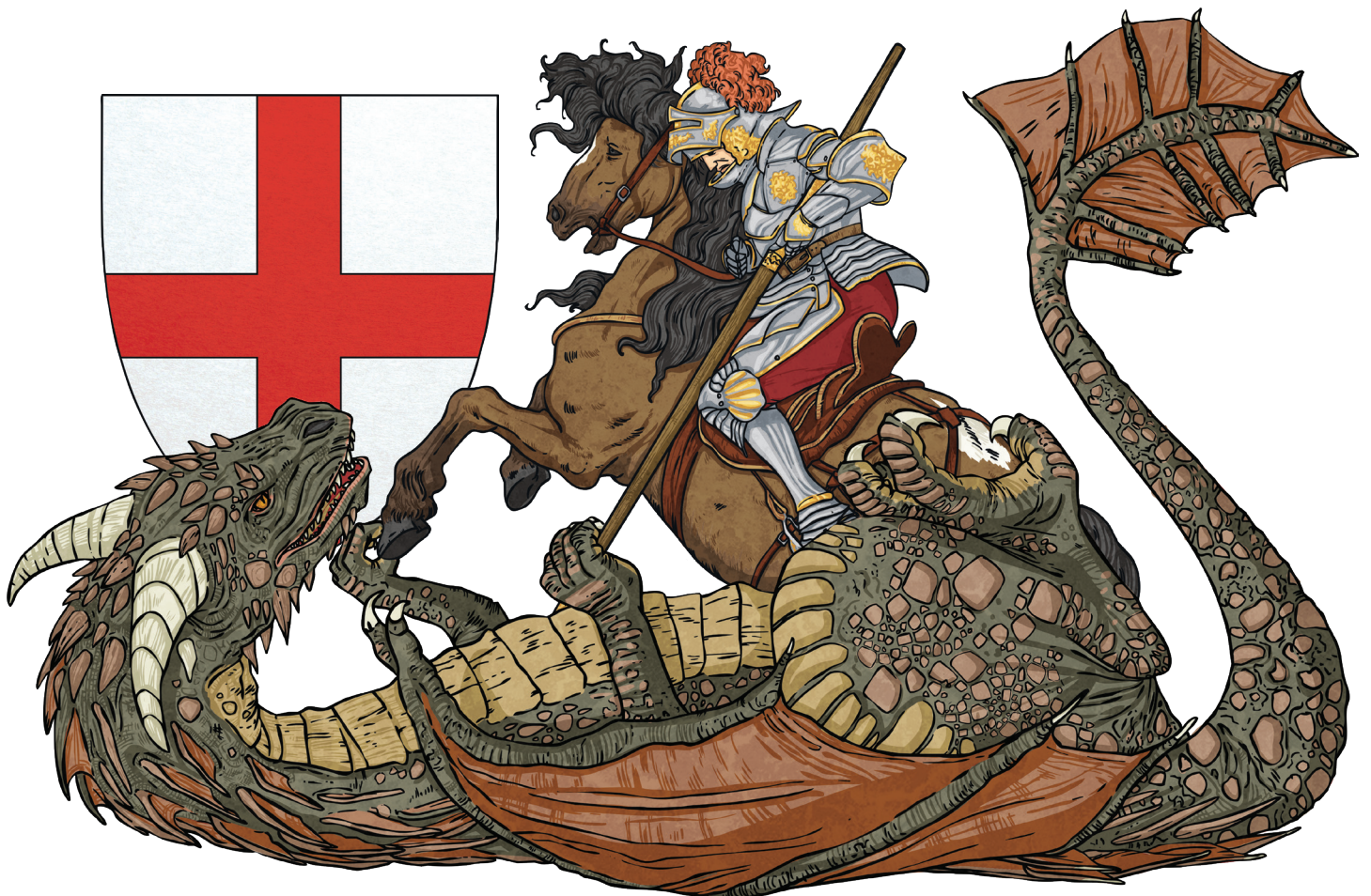
The Mystery of the Missing Knight St. George's Day Maths Mystery Game



After his brave battle against the dragon, Saint George was invited by the king to join him at a celebratory banquet.

Unfortunately, on his way to the banquet, Saint George became lost and could not find his way to the hall. When the guests realised that the guest of honour was missing, they set about trying to find him.

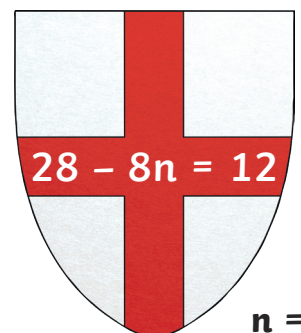
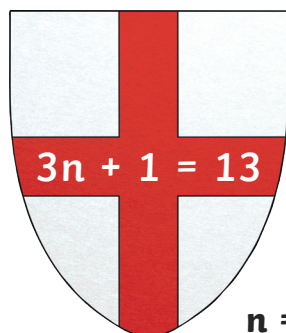
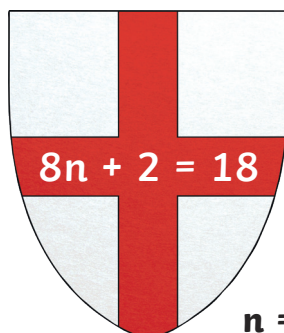
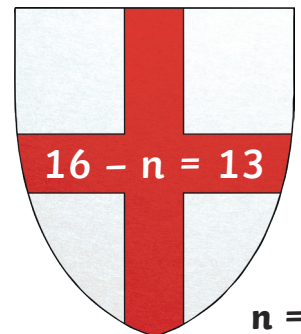
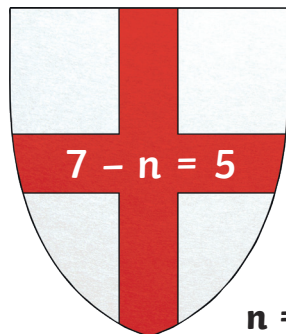
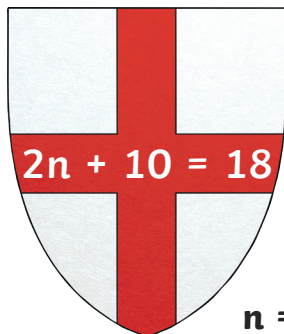
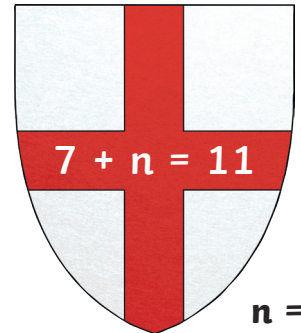
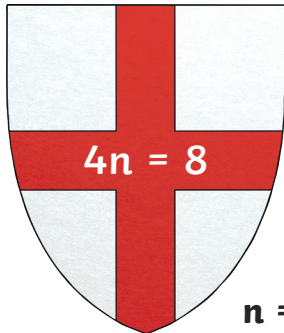
Solve the problems and find which guest discovered the whereabouts of missing Saint George.



Guest	Gender	Cloak Colour	Age	Horse Colour	Emblem
Sir Accolon	Male	Red	45	Black	Dragon
Dame Brisen	Female	Blue	32	Black	Horse
Lady Catherine	Female	Red	48	Chestnut	Lion
Sir Dagonet	Male	Blue	25	Grey	Cross
Sir Ector	Male	Yellow	47	Brown	Cross
Lady la Fay	Female	Yellow	42	Grey	Dragon
Queen Guinevere	Female	Blue	24	Brown	Horse
Lady Heliabel	Female	Green	41	Black	Dragon
Lady Igraine	Female	Blue	29	Chestnut	Lion
Sir John Haywood	Male	Green	44	Grey	Lion
Sir Kay	Male	Blue	27	Chestnut	Cross
Sir Lancelot	Male	Green	33	Brown	Horse
Lady Matilda	Female	Yellow	22	Brown	Dragon
Sir Nicholas	Male	Red	40	Chestnut	Horse
Sir Owain	Male	Blue	23	Grey	Lion
Sir Percival	Male	Yellow	50	Black	Lion
Red Knight	Male	Red	26	Grey	Horse
Sir Safir	Male	Green	49	Black	Lion
Sir Tristram	Male	Yellow	29	Grey	Dragon
Sir Uther Pendragon	Male	Blue	43	Brown	Cross
Lady Vivienne	Female	Green	38	Black	Cross
Lady Winifred	Female	Red	28	Chestnut	Horse

Clue 1: Equations

Find the value of n in each equation. A bar model is provided to help you.
The solution that occurs the most will give a clue to who found Saint George.



2

The guest doesn't have a green cloak.

3

The guest doesn't have a blue cloak.

4

The guest doesn't have a red cloak.

Clue: The guest who found Saint George doesn't have a _____ cloak.

Clue 2: Arithmetic

Find a path through the maze by colouring in the arithmetic calculations that are correct. The path will reveal a clue about the family emblem of the guest who found Saint George.

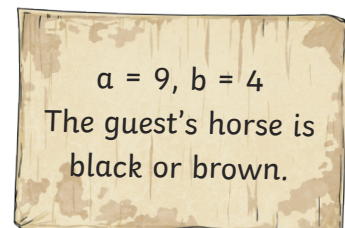
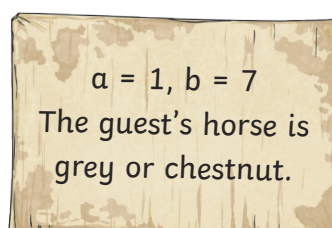
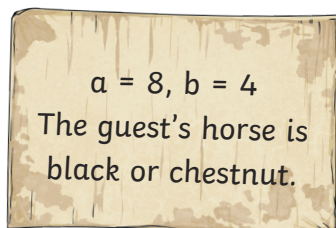
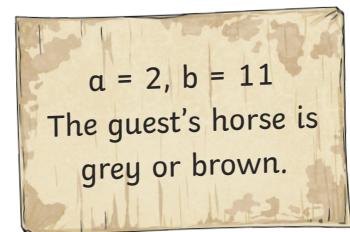
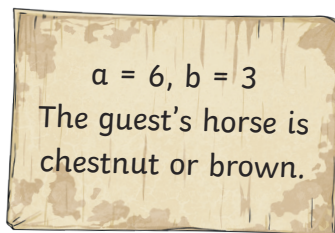
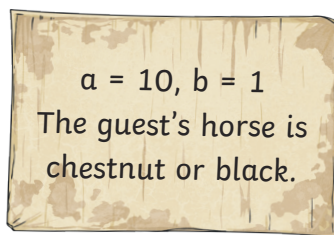
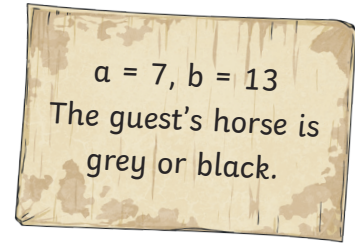
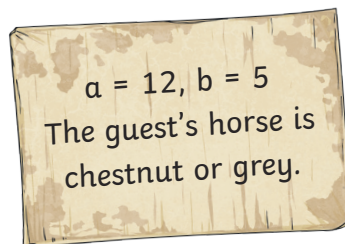
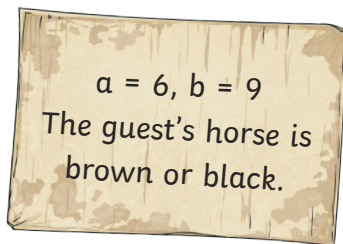
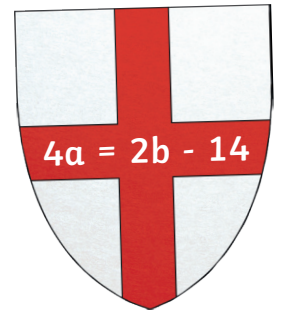
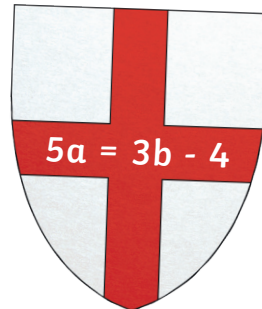
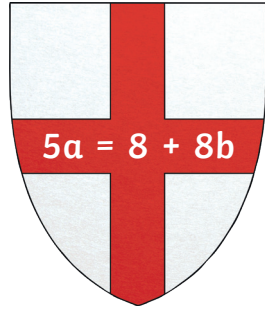
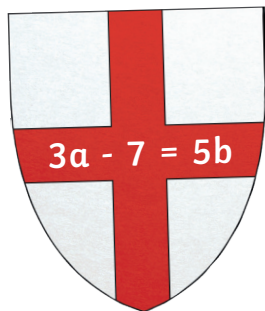
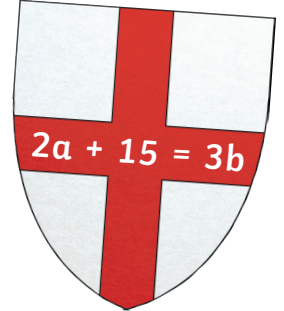
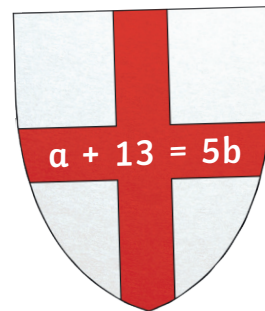
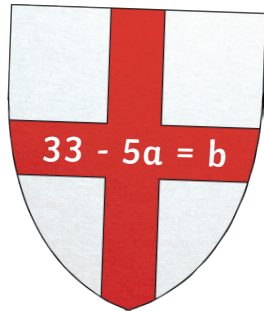
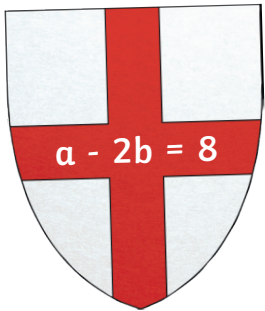
START	$306 - 9 = 297$	$32 \times 4 = 128$	$\frac{2}{9} + \frac{5}{9} = \frac{7}{9}$	$\frac{7}{10} - \frac{3}{10} = \frac{3}{10}$
$928 + 100 = 1028$	$1017 + 392 = 1509$	$11 - 8.05 = 3.5$	$84 \div 7 = 13$	$6 \times 5 \times 3 = 75$
$176 \times 2 = 352$	$6.4 + 1.9 = 8.3$	$6.7 - 0.05 = 6.65$	$3408 + 2865 = 6274$	$70\,000 - 700 = 69\,300$
$207\,376 - 72\,198 = 35\,178$	$720 \div 9 = 8$	$6^2 = 36$	$1440 \div 12 = 12$	$1000 \times 1000 = 1\,000\,000$
$6150 \div 5 = 1230$	$11.7 - 3.84 = 7.86$	$5 \times 1\frac{1}{2} = 7\frac{1}{2}$	$47 \times 19 = 1083$	$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$
$47 - 9 \times 4 = 11$	$\frac{1}{5} \times \frac{1}{3} = \frac{1}{8}$	$1.43 \times 8 = 15.44$	$\frac{3}{8} \div 3 = \frac{1}{8}$	$20\% \text{ of } 160 = 32$
The emblem of the guest who found Saint George is not a cross or horse.	The emblem of the guest who found Saint George is not a lion or horse.	The emblem of the guest who found Saint George is not a lion or dragon.	The emblem of the guest who found Saint George is not a cross or lion.	The emblem of the guest who found Saint George is not a dragon or horse.

Clue: The family emblem of the guest who found Saint George isn't a _____ or _____.

Clue 3: Find Pairs of Values

Match the equation with the pair of values that make it correct.

The one remaining answer box will give you a clue about the guest who found Saint George.



Clue: The guest who found Saint George has a _____ or _____ horse.

Clue 4: Statements about Shape and Measurement

Check if these maths statements are correct. If a statement is correct, put a tick.
If it is incorrect, put a cross. Count the number of ticks and crosses.

If there are more ticks than crosses, the guest who finds the lance is female.

If there are more crosses than ticks, the guest who finds the lance is male.

	Right ✓	Wrong ✗
The distance from the centre of a circle to the outside is the radius.		
A rectangle always has 4 lines of symmetry.		
A square with an area of 16cm^2 has a perimeter of 16cm.		
If 5 miles is approximately 8km, 15 miles is approximately 20km.		
Two angles in a parallelogram are 70° . The other angles are 110° .		
The distance from one side of a circle through the centre and to the other side is the circumference.		
All right-angled triangles are isosceles triangles.		
If two lines intersect, the adjacent angles must add up to 180° .		
If a triangle has a base of 10cm and height of 6cm, its area is 30cm^2 .		
Total		

Clue: The guest who found Saint George is female/male.

(Circle the correct answer)

Clue 5: Pie Chart

This pie chart shows the colours of 24 knight's shields.

Circle the correct answer for each question. The column with the most correct answers will tell you the age of the guest who found Saint George.



Yellow



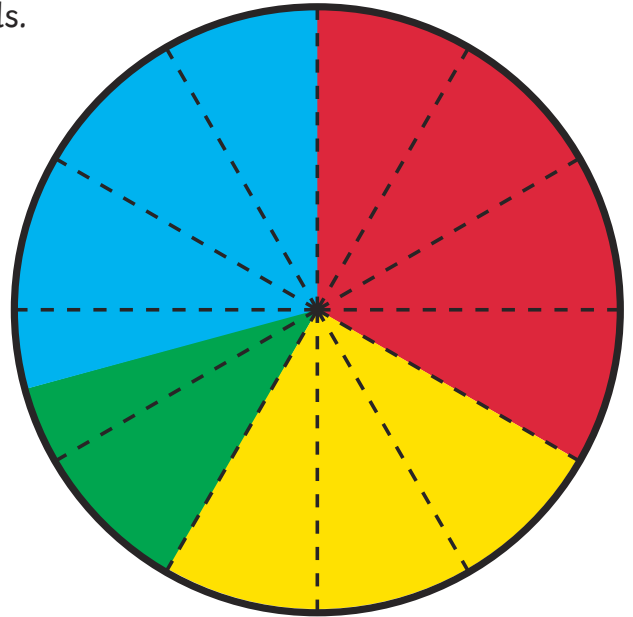
Blue



Green



Red



How many shields are yellow?	4	5	6	7
How many shields are red?	7	8	9	10
What fraction of the shields are green?	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{8}$
What percentage of the shields are yellow?	25%	10%	15%	20%
What fraction of the knights have a yellow or green shield?	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{5}{8}$
	22-28	29-35	36-42	43-50

Clue: The guest who found Saint George is aged _____.

The guest who is responsible for finding Saint George is: _____.

Clue 1: Equations

	n		n		n
$4n = 8$	2	$4n = 12$	3	$7 + n = 11$	4
$2n + 10 = 18$	4	$7 - n = 5$	2	$16 - n = 13$	3
$8n + 2 = 18$	2	$3n + 1 = 13$	4	$28 - 8n = 12$	2

The guest who found Saint George doesn't have a **green** cloak.

Clue 2: Multiply and Divide by 10, 100 and 1000

START	$306 - 9 = 297$	$32 \times 4 = 128$	$\frac{2}{9} + \frac{5}{9} = \frac{7}{9}$	$\frac{7}{10} - \frac{3}{10} = \frac{3}{10}$
$928 + 100 = 1028$	$1017 + 392 = 1509$	$11 - 8.05 = 3.5$	$84 \div 7 = 13$	$6 \times 5 \times 3 = 75$
$176 \times 2 = 352$	$6.4 + 1.9 = 8.3$	$6.7 - 0.05 = 6.65$	$3408 + 2865 = 6274$	$70\,000 - 700 = 69300$
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$6150 \div 5 = 1230$	$11.7 - 3.84 = 7.86$	$5 \times 1\frac{1}{2} = 7\frac{1}{2}$	$47 \times 19 = 1083$	$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$
$47 - 9 \times 4 = 11$	$\frac{1}{5} \times \frac{1}{3} = \frac{1}{8}$	$1.43 \times 8 = 15.44$	$\frac{3}{8} \div 3 = \frac{1}{8}$	$20\% \text{ of } 160 = 32$
The emblem of the guest who found Saint George is not a cross or horse.	The emblem of the guest who found Saint George is not a lion or horse.	The emblem of the guest who found Saint George is not a lion or dragon.	The emblem of the guest who found Saint George is not a cross or lion.	The emblem of the guest who found Saint George is not a dragon or horse.

The family emblem of the guest who found Saint George isn't a **cross** or **horse**.

Clue 3: Find Pairs of Values

$5a = 3b - 4$	$a = 7, b = 13$	The guest's horse is grey or black.
$33 - 5a = b$	$a = 6, b = 3$	The guest's horse is chestnut or brown.
	$a = 1, b = 7$	The guest's horse is grey or chestnut.
$2a + 15 = 3b$	$a = 6, b = 9$	The guest's horse is brown or black.
$a + 13 = 5b$	$a = 12, b = 5$	The guest's horse is chestnut or grey.
$5a = 8 + 8b$	$a = 8, b = 4$	The guest's horse is black or chestnut.
$4a = 2b - 14$	$a = 2, b = 11$	The guest's horse is grey or brown.
$a - 2b = 8$	$a = 10, b = 1$	The guest's horse is chestnut or black.
$3a - 7 = 5b$	$a = 9, b = 4$	The guest's horse is black or brown.

The guest who found Saint George has a **grey** or **chestnut** horse.

Clue 4: Statements about Shape and Measurement

	Right ✓	Wrong ✗
The distance from the centre of a circle to the outside is the radius.	✓	
A rectangle always has 4 lines of symmetry.		✗
A square with an area of 16cm^2 has a perimeter of 16cm.	✓	
If 5 miles is approximately 8km, 15 miles is approximately 20km.		✗
Two angles in a parallelogram are 70° . The other angles are 110° .	✓	
The distance from one side of a circle through the centre and to the other side is the circumference.		✗
All right-angled triangles are isosceles triangles.		✗
If two lines intersect, the adjacent angles must add up to 180° .	✓	
If a triangle has a base of 10cm and height of 6cm, its area is 30cm^2 .	✓	
Total	5	4

The guest who found Saint George is **female**.

Clue 5: Pie Chart

How many shields are yellow?	4	5	6	7
How many shields are red?	7	8	9	10
What fraction of the shields are green?	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{8}$
What percentage of the shields are yellow?	25%	10%	15%	20%
What fraction of the knights have a yellow or green shield?	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{5}{8}$
	22-28	29-35	36-42	43-50

The guest who found Saint George is aged 36 - 42.

The guest who is responsible for finding Saint George is Lady la Fay.