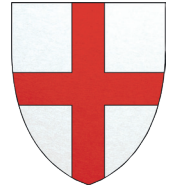
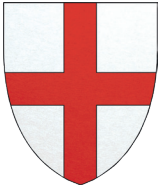


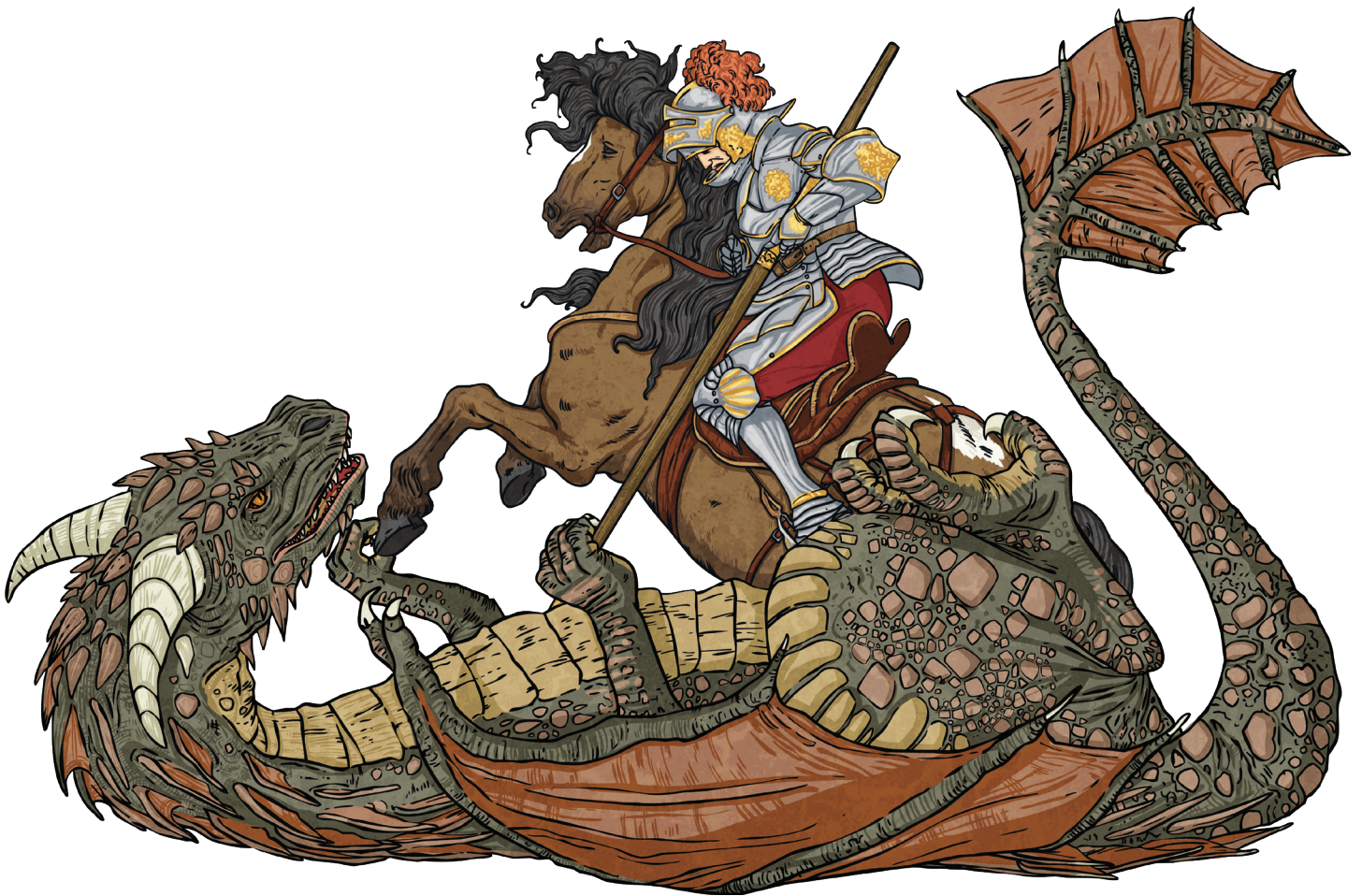
The Mystery of the Missing Lance St. George's Day Maths Mystery Game



After his brave battle against the dragon, Saint George has been invited by the king to join the knights and ladies at a celebratory banquet.

Unfortunately, when it is time to go, Saint George finds his lance is missing.

Can you solve the problems to see who discovers the whereabouts of Saint George's lance?

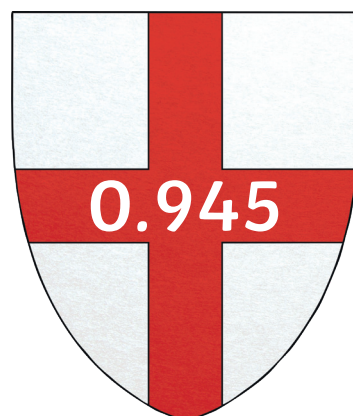


Guest	Gender	Cloak Colour	Age	Horse Colour	Emblem
Sir Accolon	M	Red	45	Black	Lion
Dame Brisen	F	Blue	32	Black	Star
Lady Catherine	F	Red	48	Chestnut	Bull
Sir Dagonet	M	Blue	25	Grey	Cross
Sir Ector	M	Yellow	47	Brown	Cross
Lady la Fay	F	Yellow	42	Grey	Lion
Queen Guinevere	F	Blue	24	Brown	Star
Lady Heliabel	F	Green	41	Black	Lion
Lady Igraine	F	Blue	39	Chestnut	Bull
Sir John Haywood	M	Green	44	Grey	Bull
Sir Kay	M	Blue	27	Chestnut	Cross
Sir Lancelot	M	Green	33	Brown	Star
Lady Matilda	F	Yellow	22	Brown	Lion
Sir Nicholas	M	Red	40	Chestnut	Star
Sir Owain	M	Blue	23	Grey	Bull
Sir Percival	M	Yellow	50	Black	Bull
Red Knight	M	Red	26	Grey	Star
Sir Safir	M	Green	49	Black	Bull
Sir Tristram	M	Yellow	29	Brown	Lion
Sir Uther Pendragon	M	Blue	43	Brown	Cross
Lady Vivienne	F	Green	38	Black	Cross
Lady Bianca	F	Red	28	Chestnut	Star

Clue 1: Rounding Decimals

Round the following decimals to the nearest tenth.

The solution that occurs the most gives a clue to who finds the lance.



0.7	0.8	0.9
The guest doesn't have a yellow cloak.	The guest doesn't have a blue cloak.	The guest doesn't have a green cloak.

Clue: The guest who finds the lance doesn't have a _____ cloak.

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

Find a path through the maze by colouring in the calculations that are correct.

The path will reveal a clue about the emblem of the guest who finds the lance.

START	0.67×10 = 6.7	$13.4 \div 10$ = 1.34	2.09×100 = 209	$46.7 \div 100$ = 4.67
0.08×1000 = 80	$7240 \div 1000$ = 7.24	0.73×10 = 7.03	$5 \div 10$ = 0.5	9.07×100 = 907
$50.5 \div 100$ = 0.505	0.05×1000 = 5	$607 \div 1000$ = 0.607	0.46×10 = 46	$4.03 \div 10$ = 0.403
0.087×100 = 8.07	$968 \div 100$ = 9.68	0.039×1000 = 39	$3009 \div 1000$ = 3.009	7.08×10 = 70.8
$56.7 \div 10$ = 5.67	0.008×100 = 0.8	$9 \div 100$ = 0.009	6.08×1000 = 6080	$406 \div 1000$ = 4.06
8.009×10 = 80.09	$0.67 \div 10$ = 6.7	0.06×100 = 6	$406 \div 1000$ = 0.46	0.036×10 = 0.36
The emblem of the guest who finds the lance is not a cross or star.	The emblem of the guest who finds the lance is not a bull or star.	The emblem of the guest who finds the lance is not a bull or lion.	The emblem of the guest who finds the lance is not a cross or bull.	The emblem of the guest who finds the lance is not a lion or star.

Clue: The emblem of the guest who finds the lance isn't a _____ or _____.

Clue 3: Adding and Subtracting Decimals

Match the answers to these calculations.

The one remaining answer box will give you a clue about the guest who finds the lance.

$$0.166 - 0.01$$

$$0.47 - 0.367$$

$$0.077 + 0.99$$

$$0.5 + 0.654$$

$$0.34 + 0.765$$

$$0.87 + 0.227$$

$$0.82 - 0.36$$

$$0.69 - 0.368$$

<p>0.322 The guest's horse is grey or black.</p>
<p>1.067 The guest's horse is brown or black.</p>
<p>1.03 The guest's horse is grey or brown.</p>
<p>1.105 The guest's horse is chestnut or brown.</p>
<p>0.46 The guest's horse is chestnut or grey.</p>
<p>1.097 The guest's horse is chestnut or black.</p>
<p>0.103 The guest's horse is grey or chestnut.</p>
<p>0.156 The guest's horse is black or chestnut.</p>
<p>1.154 The guest's horse is black or brown.</p>

Clue: The guest who finds the lance has a _____ or _____ horse.

Clue 4: Measures as Decimals

Check if these maths statements are correct. If it is right, put a tick. If it is wrong, 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 ✗
$8.2\text{kg} + 670\text{g} = 14.9\text{kg}$		
$£10.45 - 87\text{p} = £9.58$		
935ml more than 3.2l = 4.035l		
Subtract £1, 50p and 20p from £9.86 = £8.16		
$2\text{km} + 465\text{m} = 6.65\text{km}$		
$0.578\text{ml} + 0.89\text{ml} = 1.468\text{l}$		
$35\text{m} + 298\text{cm} = 37.98\text{m}$		
$1700\text{g} + 3.4\text{kg} = 3.57\text{kg}$		
$£4.67 + 109\text{p} = £5.76$		
Total		

Clue: The guest who finds the lance is a female/male.

(Circle the correct answer)

Clue 5: Equivalent Percentages

In each row, match the percentage that is equivalent to the first fraction.

The column with the most correct answers will tell you the age of the guest who finds the lance.

$\frac{1}{2}$	50%	10%	20%	12%
$\frac{2}{5}$	20%	50%	25%	40%
$\frac{7}{20}$	7%	35%	28%	70%
$\frac{4}{25}$	25%	40%	16%	4%
$\frac{4}{5}$	4%	40%	80%	75%
$\frac{7}{50}$	7%	5%	10%	14%
$\frac{34}{40}$	68%	85%	70%	34%
$\frac{3}{5}$	60%	30%	50%	55%
$\frac{36}{75}$	48%	36%	40%	50%
	22-28	29-35	36-42	43-50

Clue: The guest who finds the lance is aged _____.

The guest who is responsible for finding the lance is: _____.

Clue 1: Rounding Decimals

$0.777 \rightarrow 0.8$ $0.65 \rightarrow 0.7$ **$0.903 \rightarrow 0.9$**
 $0.872 \rightarrow 0.9$ $0.791 \rightarrow 0.8$ $0.65 \rightarrow 0.7$
 $0.847 \rightarrow 0.8$ **$0.85 \rightarrow 0.9$** **$0.945 \rightarrow 0.9$**

The guest who finds the lance doesn't have a **green** cloak.

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

START	0.67×10 = 6.7	$13.4 \div 10$ = 1.34	2.09×100 = 209	$46.7 \div 100$ = 4.67
0.08×1000 = 80	$7240 \div 1000$ = 7.24	0.73×10 = 7.03	$5 \div 10$ = 0.5	9.07×100 = 907
$50.5 \div 100$ = 0.505	0.05×1000 = 5	$607 \div 1000$ = 0.607	0.46×10 = 46	$4.03 \div 10$ = 0.403
0.087×100 = 8.07	$968 \div 100$ = 9.68	0.039×1000 = 39	$3009 \div 1000$ = 3.009	7.08×10 = 70.8
$56.7 \div 10$ = 5.67	0.008×100 = 0.8	$9 \div 100$ = 0.009	6.08×1000 = 6080	$406 \div 1000$ = 4.06
8.009×10 = 80.09	$0.67 \div 10$ = 6.7	0.06×100 = 6	$406 \div 1000$ = 0.46	0.036×10 = 0.36
The emblem of the guest who finds the lance is not a cross or star.	The emblem of the guest who finds the lance is not a bull or star.	The emblem of the guest who finds the lance is not a bull or lion.	The emblem of the guest who finds the lance is not a cross or bull.	The emblem of the guest who finds the lance is not a lion or star.

The emblem of the guest who finds the lance isn't a **cross** or **star**.

Clue 3: Adding and Subtracting Decimals

$0.69 - 0.368 =$	0.322 The guest's horse is grey or black.
$0.077 + 0.99 =$	1.067 The guest's horse is brown or black.
	1.03 The guest's horse is grey or brown.
$0.34 + 0.765 =$	1.105 The guest's horse is chestnut or brown.
$0.82 - 0.36 =$	0.46 The guest's horse is chestnut or grey.
$0.87 + 0.227 =$	1.097 The guest's horse is chestnut or black.
$0.47 - 0.367 =$	0.103 The guest's horse is grey or chestnut.
$0.166 - 0.01 =$	0.156 The guest's horse is black or chestnut.
$0.5 + 0.654 =$	1.154 The guest's horse is black or brown.

The guest who finds the lance has a **grey** or **brown** horse.

Clue 4: Measures as Decimals

	Right ✓	Wrong ✗
$8.2\text{kg} + 670\text{g} = 14.9\text{kg}$		✗
$£10.45 - 87\text{p} = £9.58$	✓	
935ml more than 3.2l = 4.035l		✗
Subtract £1, 50p and 20p from £9.86 = £8.16	✓	
$2\text{km} + 465\text{m} = 6.65\text{km}$		✗
$0.578\text{ml} + 0.89\text{ml} = 1.468\text{l}$	✓	
$35\text{m} + 298\text{cm} = 37.98\text{m}$	✓	
$1700\text{g} + 3.4\text{kg} = 3.57\text{kg}$		✗
$£4.67 + 109\text{p} = £5.76$	✓	
Total	5	4

The guest who finds the lance is a **female**.

Clue 5: Equivalent Percentages

$\frac{1}{2}$	50%	10%	20%	12%
$\frac{2}{5}$	20%	50%	25%	40%
$\frac{7}{20}$	7%	35%	28%	70%
$\frac{4}{25}$	25%	40%	16%	4%
$\frac{4}{5}$	4%	40%	80%	75%
$\frac{7}{50}$	7%	5%	10%	14%
$\frac{34}{40}$	68%	85%	70%	34%
$\frac{3}{5}$	60%	30%	50%	55%
$\frac{36}{75}$	48%	36%	40%	50%
	22-28	29-35	36-42	43-50

The guest who finds the lance is aged **22-28**.

The guest who is responsible for finding the lance is Lady Matilda.