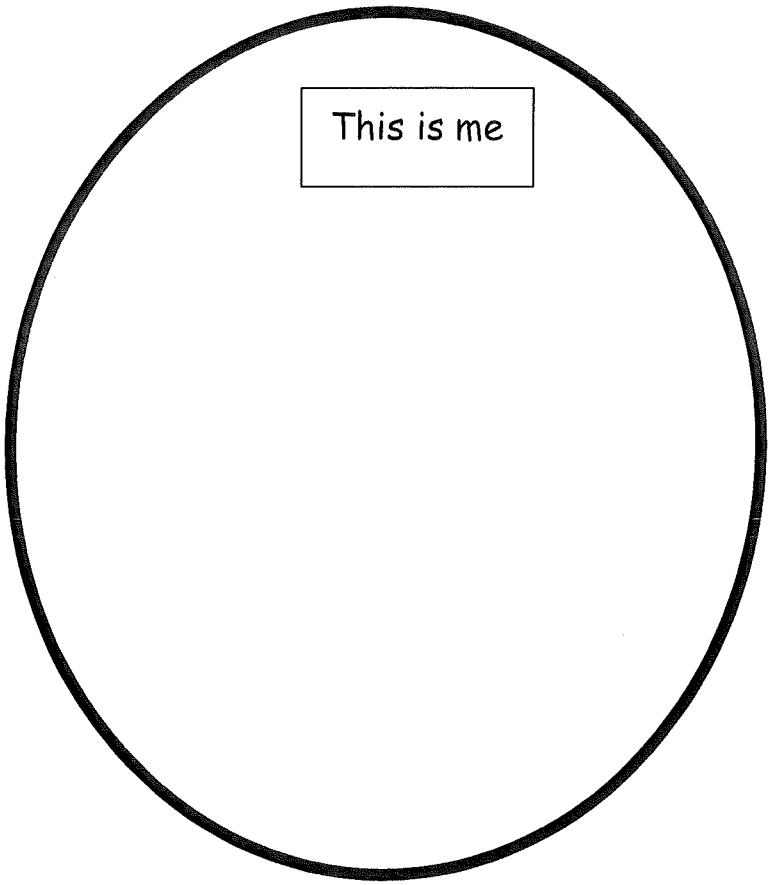
Year 5 Home Learning Booklet 1

This is me



Name:

Diary

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Reading Log

Date	Title	Page	Comments

Mathematics

Arithmetic: Test 1a

Year 5

Name	
Date	

/16
total marks

1 $348 + 100 =$

1 mark

2 $39 \div 8 =$

1 mark

3 $\frac{3}{5} + \frac{1}{5} =$

1 mark

Total for this page

4 4721 - 916 =

1 mark

5 9 x 8 =

1 mark

6 3.56 + 0.08 =

1 mark

Total for this page

7 $5 \div 100 =$

1 mark

8 $892\,371 - 38\,452 =$

1 mark

9 $6^2 =$

1 mark

Total for this page

10 $60 \times 5 =$

1 mark

11 $\frac{5}{8} + \frac{1}{4} =$

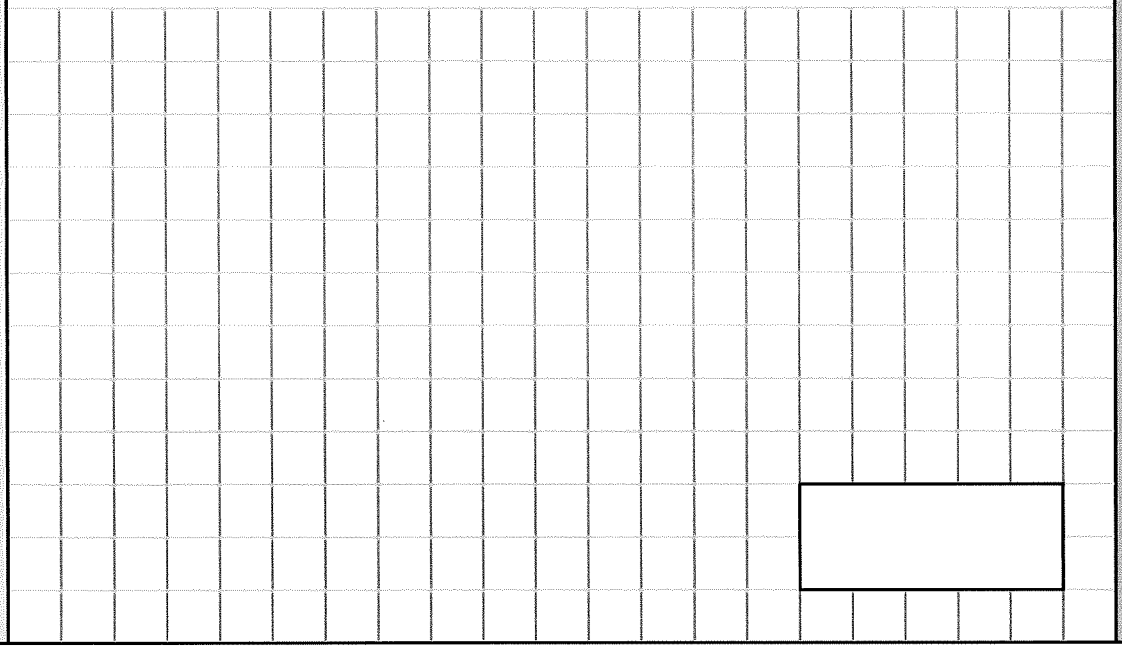
1 mark

12 $4.5 + 2.76 =$

1 mark

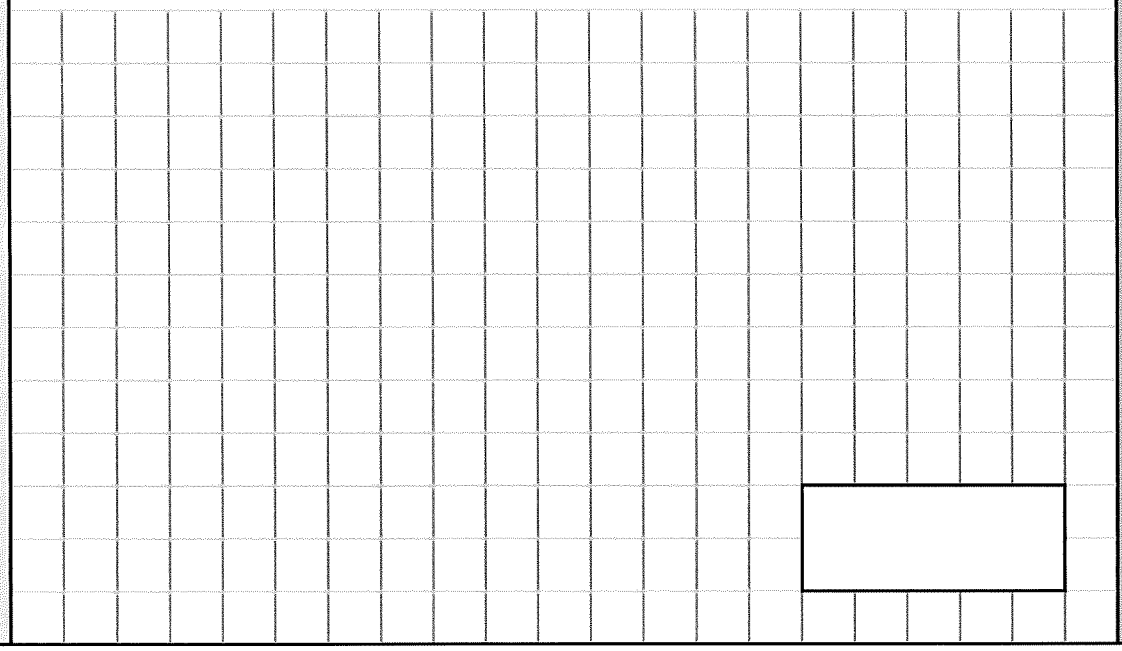
Total for this page

13 347 x 13 =



2 marks

14 2653 ÷ 7 =



2 marks

Total for this page

Answer Sheet: Key Stage 2: Year 5: arithmetic test 1a

Guidance: Children will have 15 minutes for this test.

question	answer	marks
1	**448**	1
2	**4.875**	1
3	$\frac{4}{5}$	1
4	**3805**	1
5	**72**	1
6	**3.64**	1
7	**0.05**	1
8	**853 919**	1
9	**36**	1
10	**300**	1
11	$\frac{7}{8}$	1
12	**7.26**	1
13	**4511**	2
14	**379**	2
		Total 16

Mathematics

Arithmetic: Test 1b

Year 5

Name	
Date	

/16 total marks

1 407 - 30 =

1 mark

2 $\frac{7}{8} - \frac{1}{8} =$

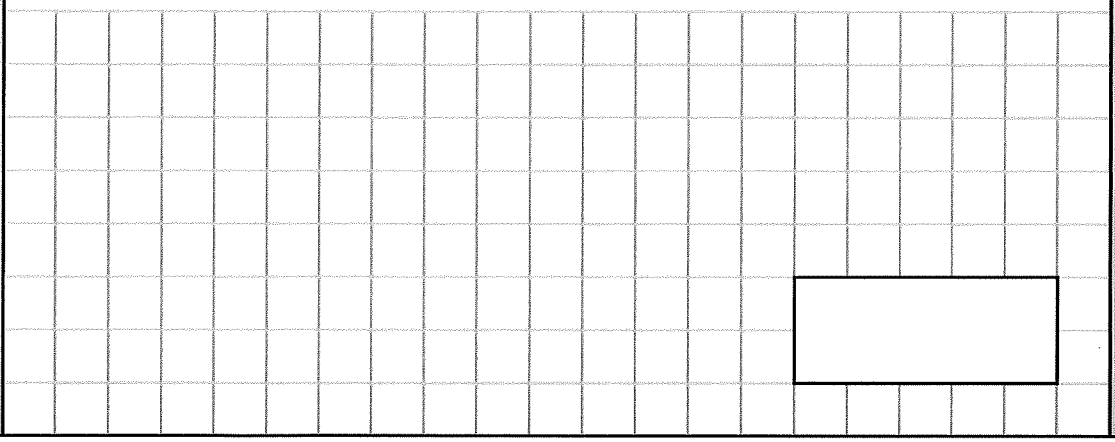
1 mark

3 4829 + 3527 =

1 mark

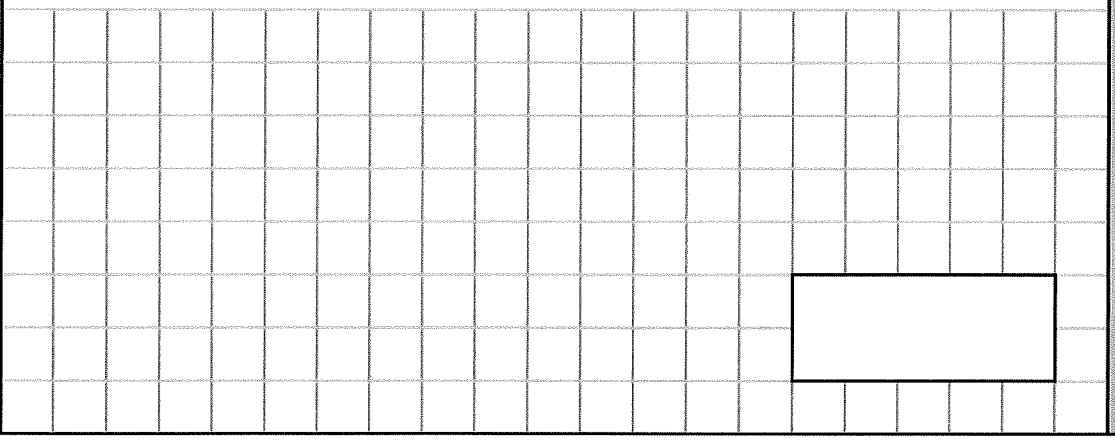
Total for this page

4 $3 \times 6 \times 8 =$



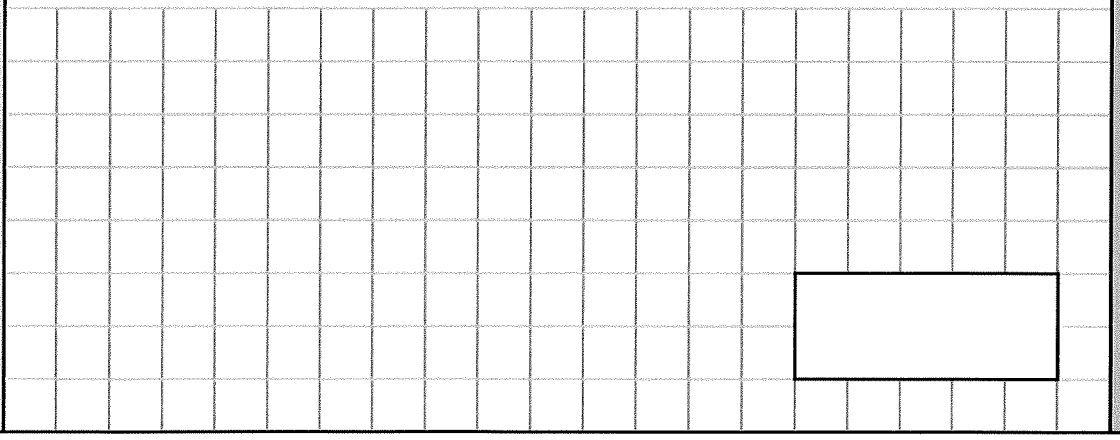
1 mark

5 $472 \times 9 =$



1 mark

6 $\frac{2}{3}$ of $24 =$



1 mark

Total for this page

7 67 235 + 4839 =

1 mark

8 40 000 - 600 =

1 mark

9 450 ÷ 5 =

1 mark

Total for this page

10 $3.7 \times 100 =$

1 mark

11 $\frac{5}{6} - \frac{2}{3} =$

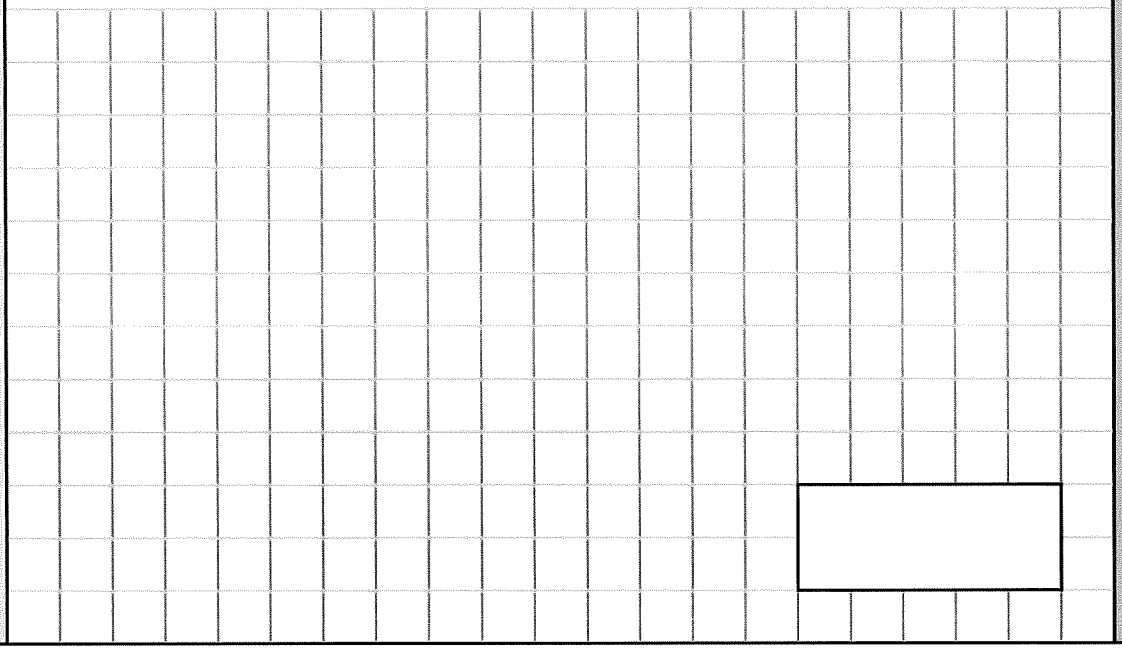
1 mark

12 $\frac{3}{4} \times 3 =$

1 mark

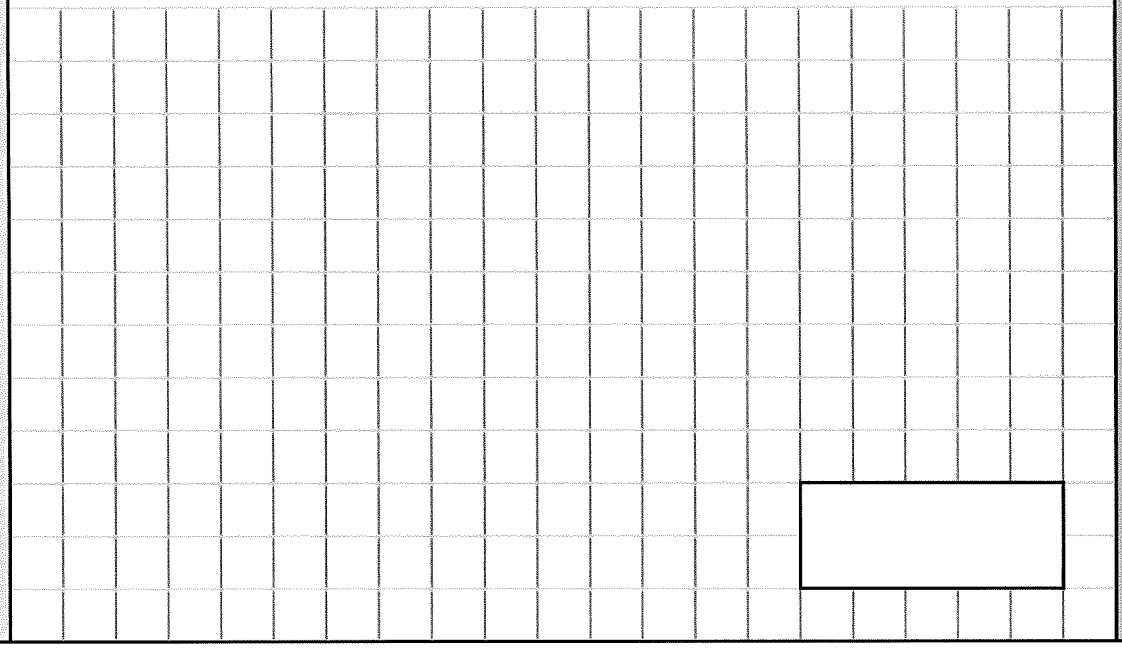
Total for this page

13 5728 x 26 =



2 marks

14 356 ÷ 4 =



2 marks

Total for this page

Answer Sheet: Key Stage 2: Year 5: arithmetic test 1b

Guidance: Children will have 15 minutes for this test.

question	answer	marks
1	**377**	1
2	$\frac{6}{8}$ or $\frac{3}{4}$	1
3	**8356**	1
4	**144**	1
5	**4248**	1
6	**16**	1
7	**72 074**	1
8	**39 400**	1
9	**90**	1
10	**370**	1
11	$\frac{1}{6}$	1
12	$\mathbf{2\frac{1}{4}}$	1
13	**148 928**	2
14	**89**	2
		Total 16

Mathematics

Arithmetic: Test 2a

Year 5

Name	
Date	

/16 total marks

1 $291 + 100 =$

1 mark

2 $92 \div 4 =$

1 mark

3 $\frac{5}{8} + \frac{1}{8} =$

1 mark

Total for this page

4 3117 - 427 =

1 mark

5 12 x 6 =

1 mark

6 57.3 - 0.9 =

1 mark

Total for this page

7 $34 \div 10 =$

1 mark

8 $388\ 293 + 57\ 295 =$

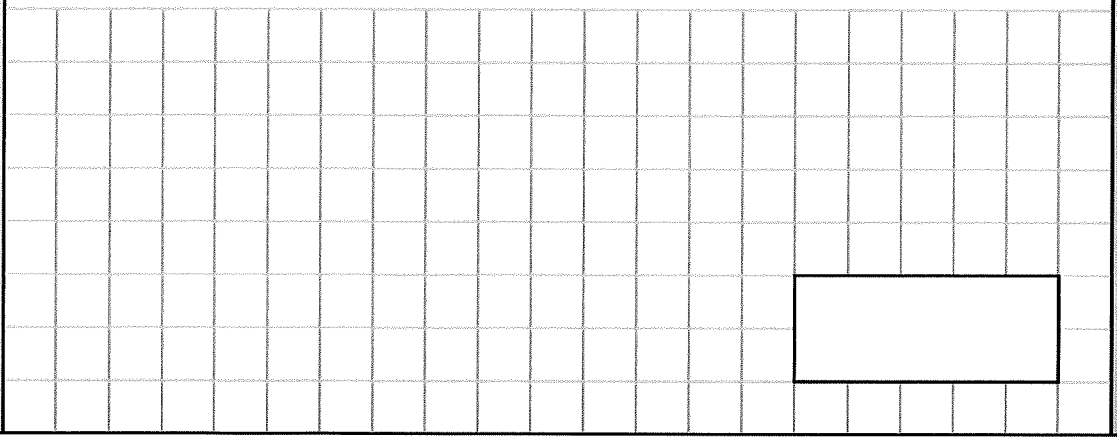
1 mark

9 $3^3 =$

1 mark

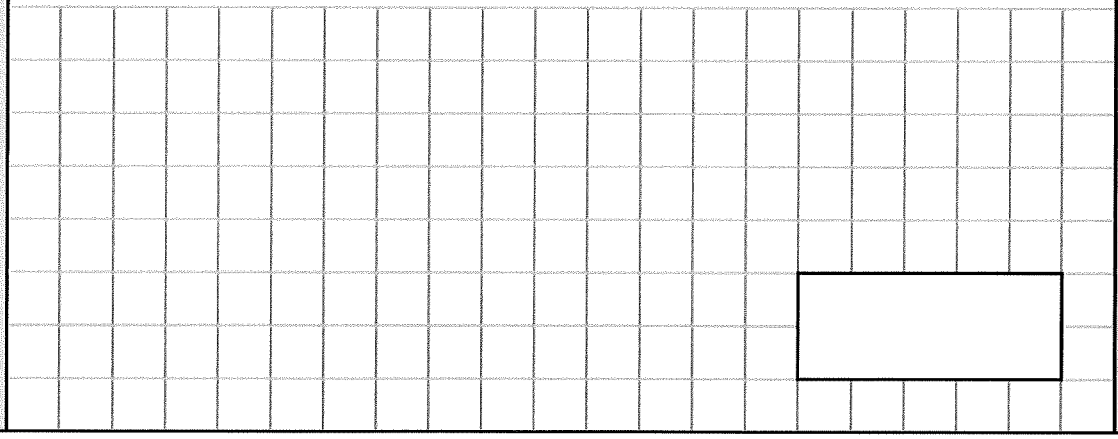
Total for this page

10 $3 \times 120 =$



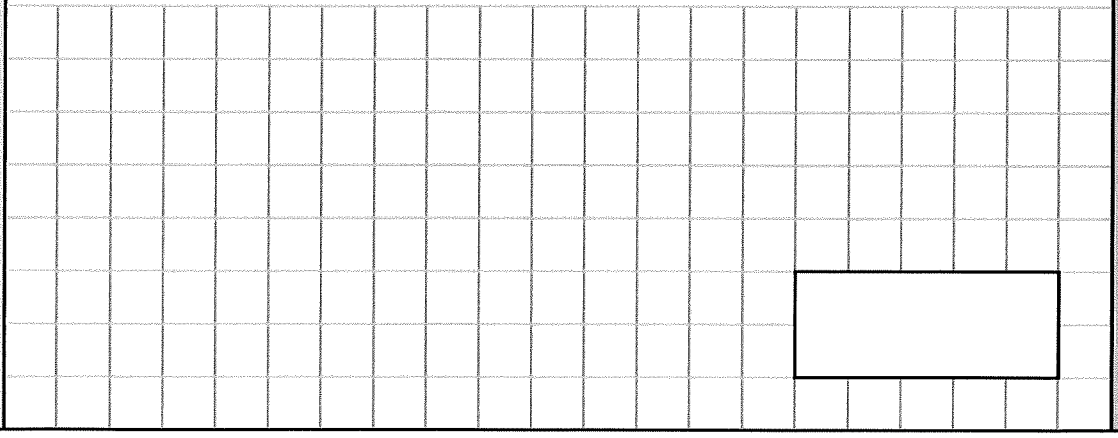
1 mark

11 $\frac{1}{3} + \frac{1}{12} =$



1 mark

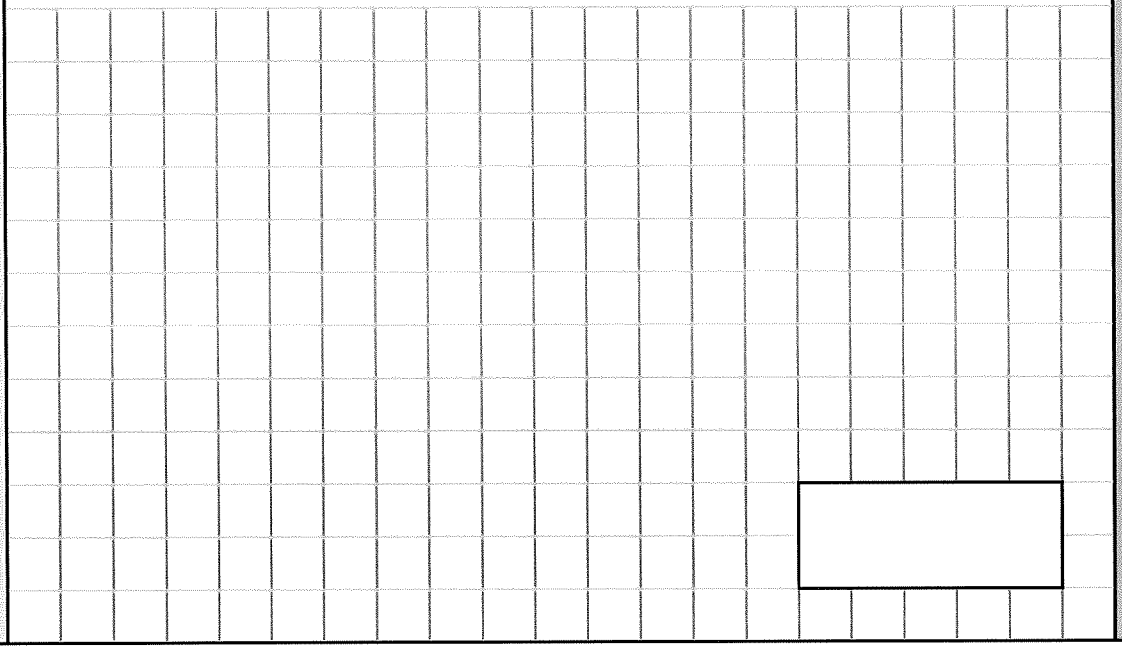
12 $8.02 - 3.5 =$



1 mark

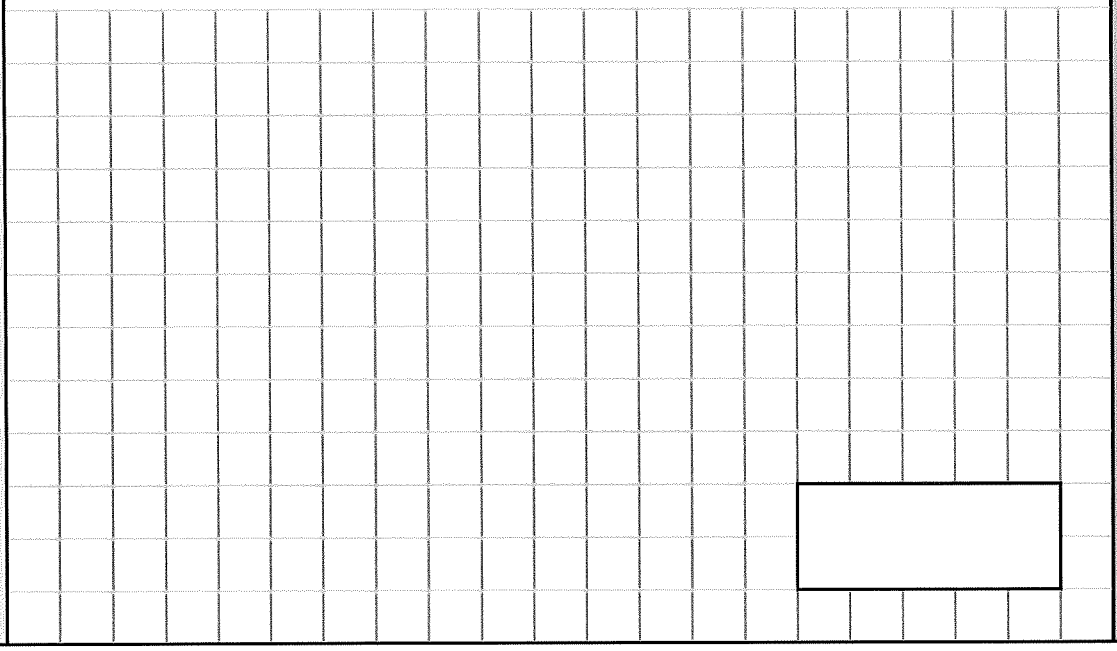
Total for this page

13 625 x 13 =



2 marks

14 5634 ÷ 5 =



2 marks

Total for this page

Answer Sheet: Key Stage 2: Year 5: arithmetic test 2a

Guidance: Children will have 15 minutes for this test.

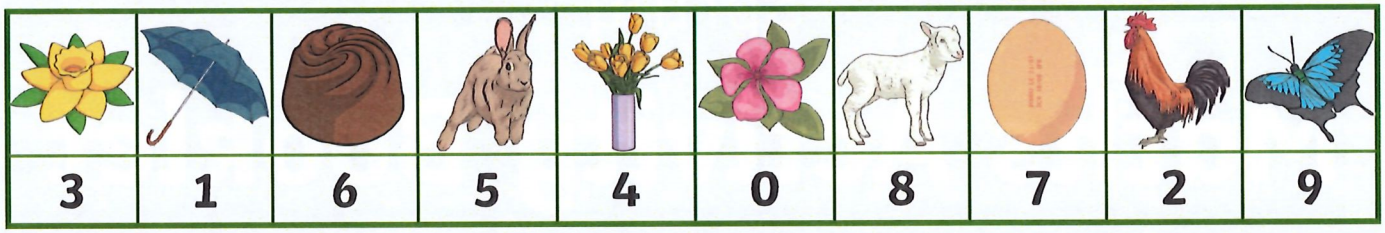
question	answer	marks
1	**391**	1
2	**23**	1
3	$\frac{6}{8}$ or $\frac{3}{4}$	1
4	**2690**	1
5	**72**	1
6	**56.4**	1
7	**3.4**	1
8	**445 588**	1
9	**27**	1
10	**360**	1
11	$\frac{5}{12}$	1
12	**4.52**	1
13	**8125**	2
14	**1126.8**	2
		Total 16

Spring

Maths Activity Booklet

Name: _____

Compare Code Breaker



Use the code breaker to compare these decimal fractions.

Calculations Code Breaker

Reveal a spring-themed joke by writing the percentage equivalent to the following fractions and decimal fractions. Use the grid to locate the letter that matches each answer. The joke will read across the tables.

A	B	C	D	E	F	G	H	I	J	K	L	M
6%	15%	21%	5%	13%	24%	18%	7%	12%	1%	25%	19%	9%

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
22%	16%	11%	26%	2%	17%	20%	3%	10%	8%	14%	23%	4%

	0.08	$\frac{7}{100}$	0.06	$\frac{1}{5}$
Answer				
Letter				

$\frac{18}{100}$	0.16	$\frac{13}{100}$	0.17

$\frac{3}{100}$	0.11

	$\frac{2}{25}$	0.07	$\frac{13}{100}$	0.22
Answer				
Letter				

$\frac{2}{10}$	0.07	$\frac{13}{100}$

0.02	$\frac{6}{100}$	0.12	$\frac{22}{100}$

	0.21	$\frac{4}{25}$	0.09	$\frac{13}{100}$	0.17
Answer					
Letter					

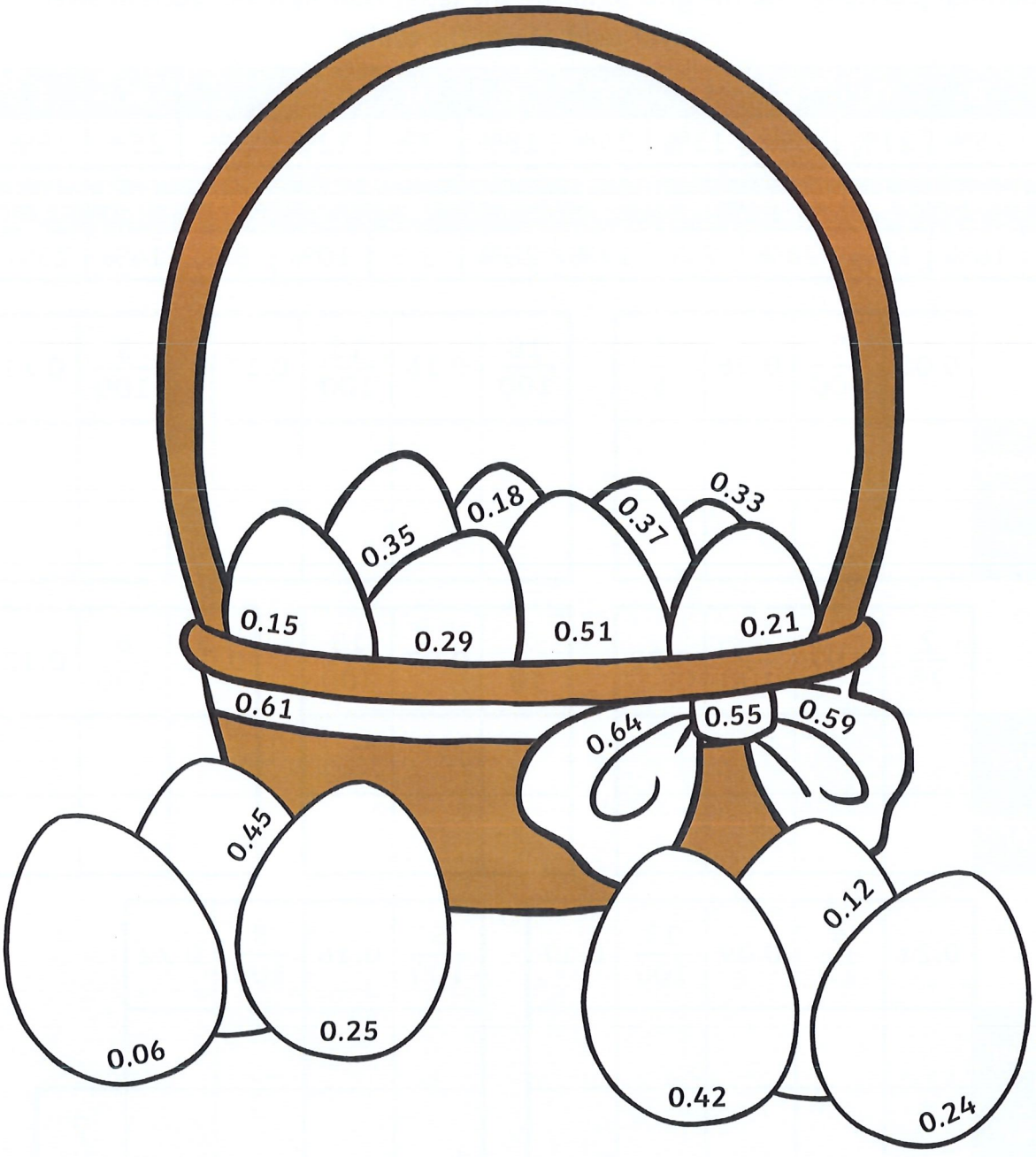
$\frac{5}{100}$	0.16	$\frac{8}{100}$	0.22	
				?

	0.06	$\frac{22}{100}$
Answer		
Letter		

0.03	$\frac{9}{100}$	0.15	$\frac{2}{100}$	0.13	$\frac{19}{100}$	0.19	$\frac{6}{100}$	
								.

Colour by Calculation

Round each number to the nearest tenth. Use the key to colour the spring-themed picture.

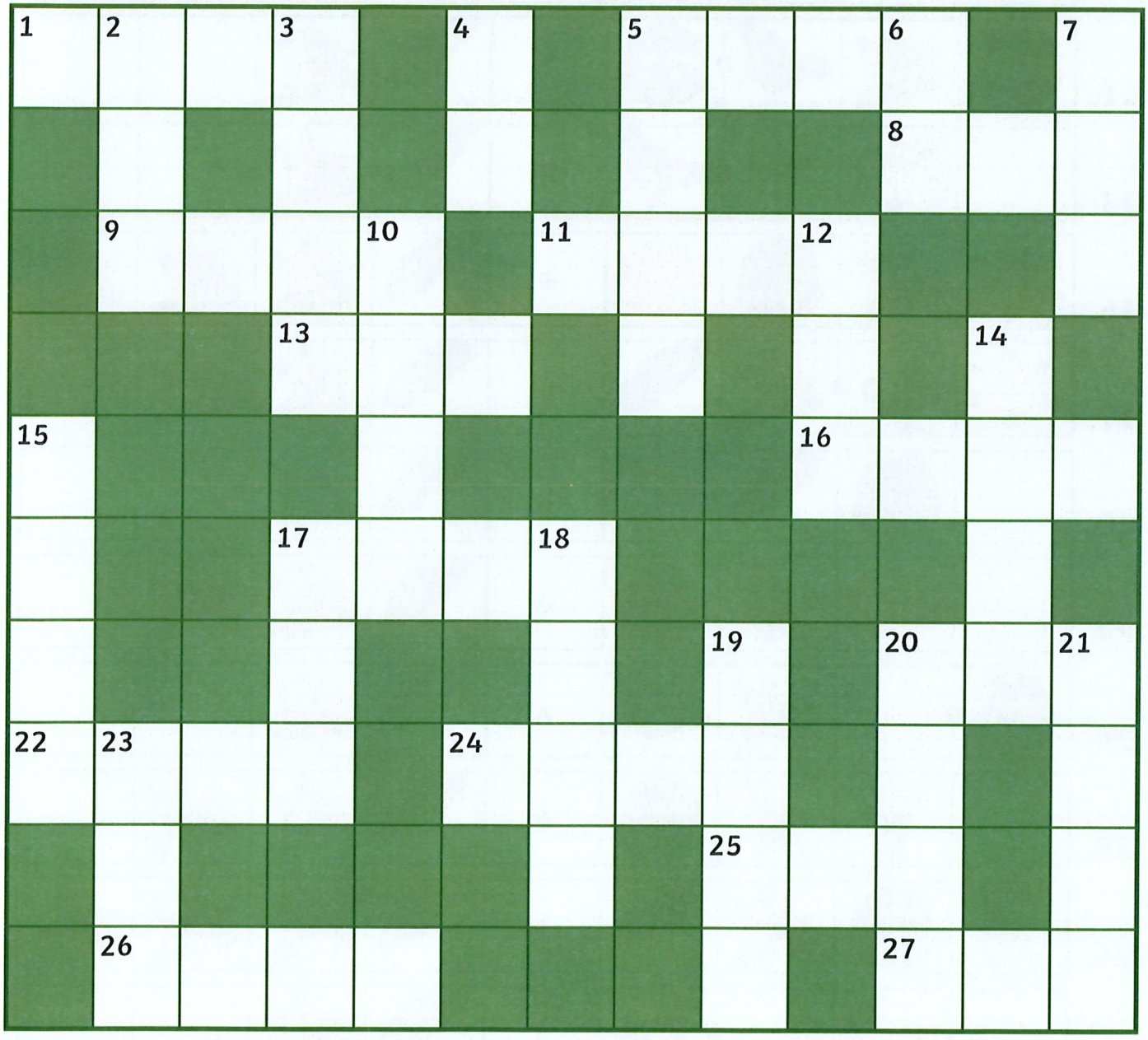


Pink:	Orange:	Yellow:	Green:	Light Purple:	Blue:
0.6	0.1	0.2	0.3	0.4	0.5

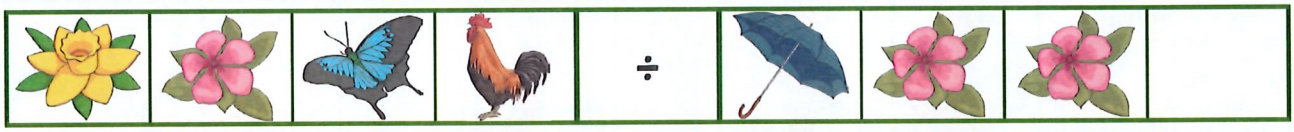
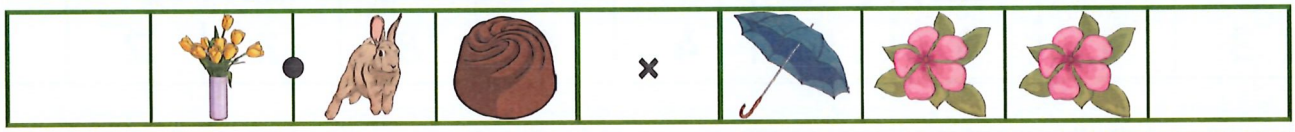
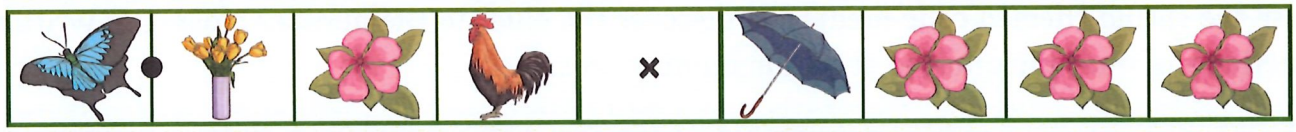
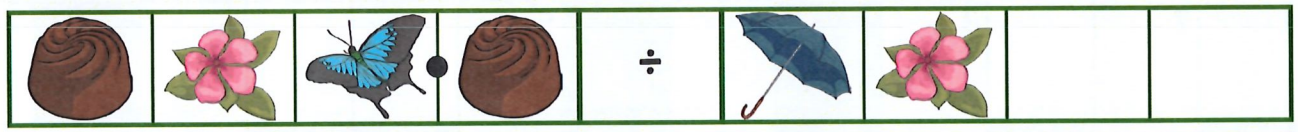
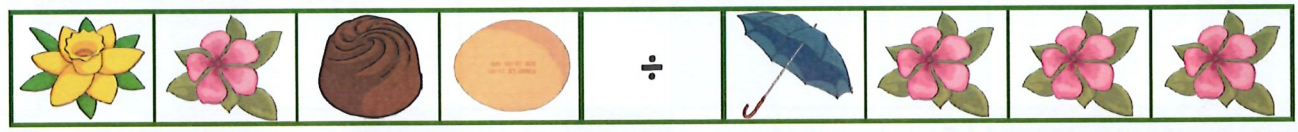
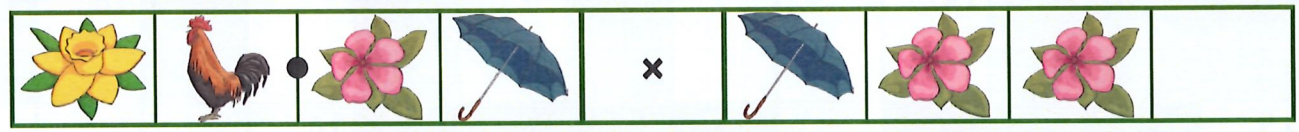
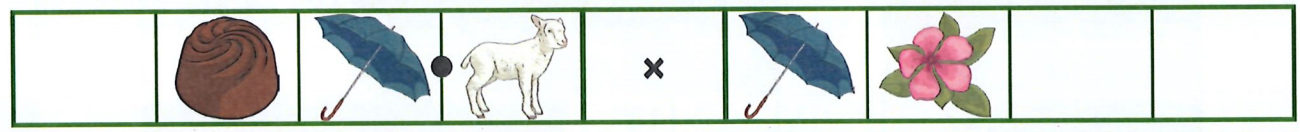
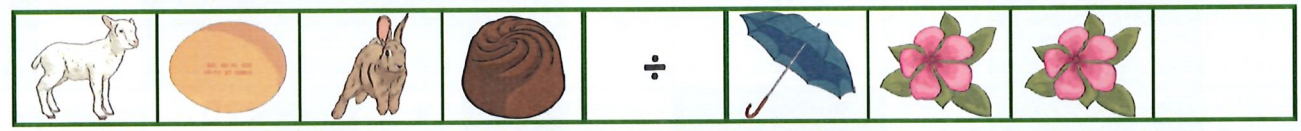
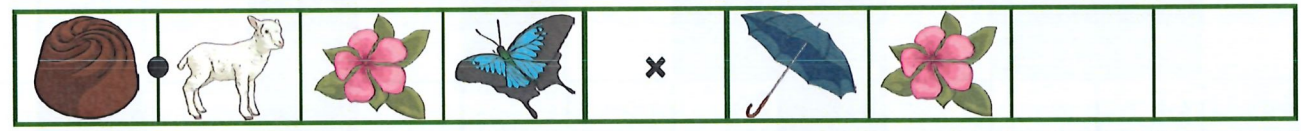
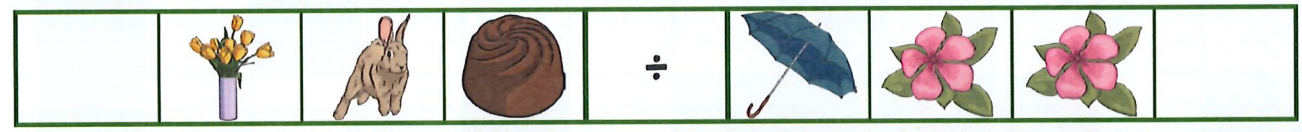
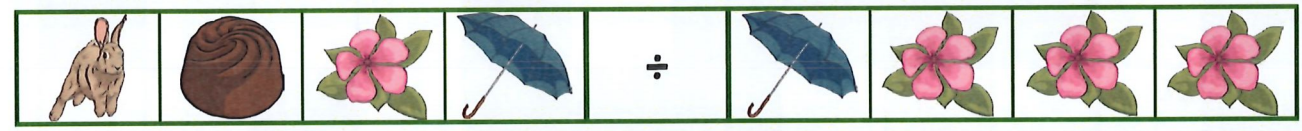
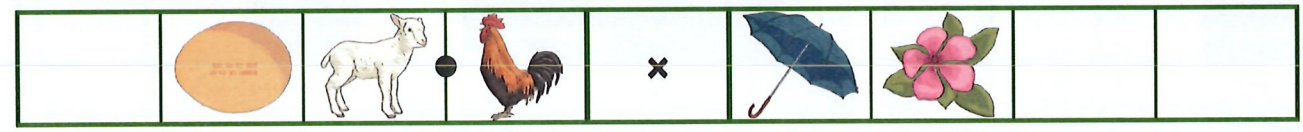
Number Cross

									
3	1	6	5	4	0	8	7	2	9

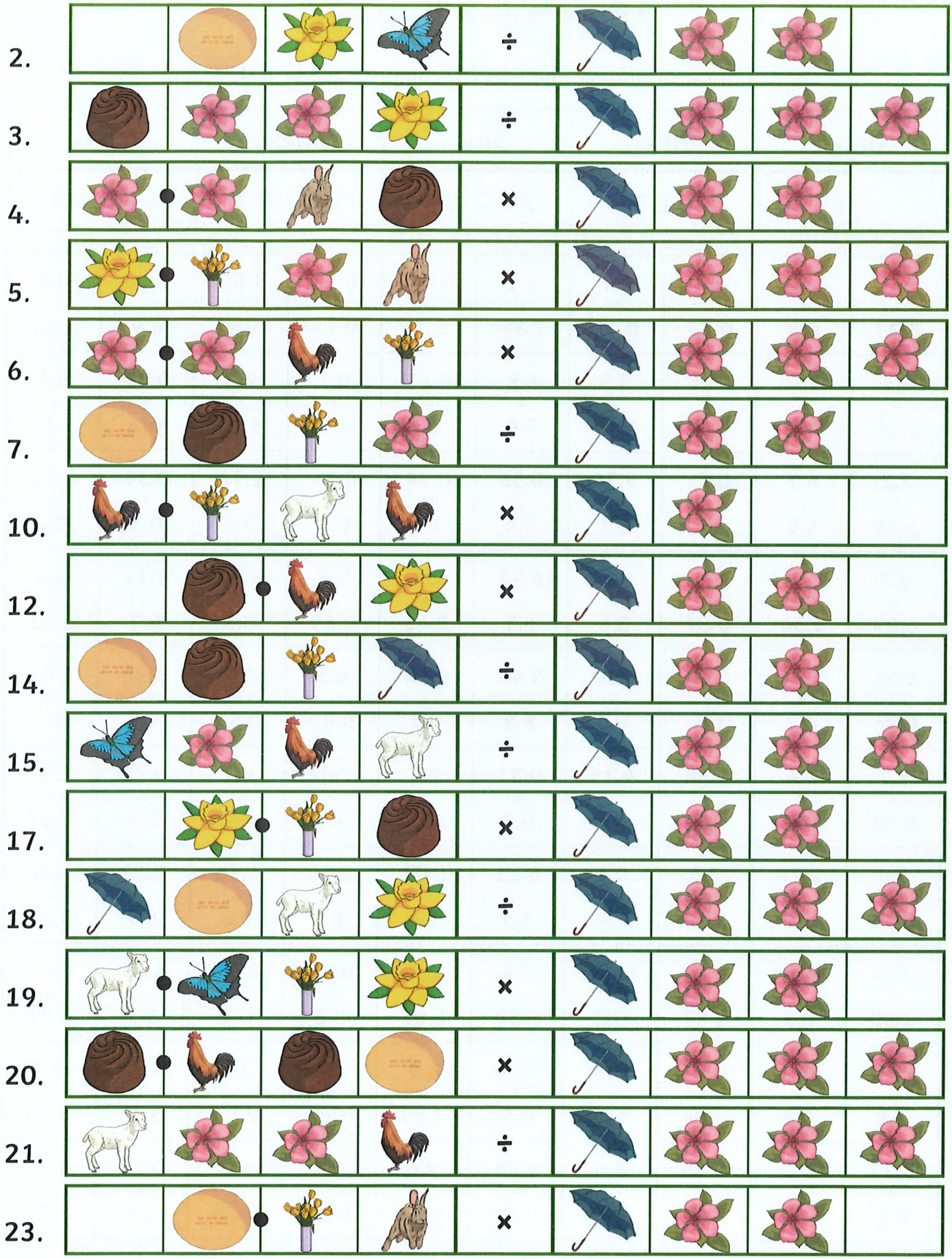
Use the spring-themed code breaker to discover the clues to the number cross. Use written methods of multiplication to solve the number cross.



Number Cross: Across

1. 
5. 
8. 
9. 
11. 
13. 
16. 
17. 
20. 
22. 
24. 
25. 
26. 
27. 

Number Cross: Down



Maths Mosaic

Calculate each answer and find the colour to shade each square.

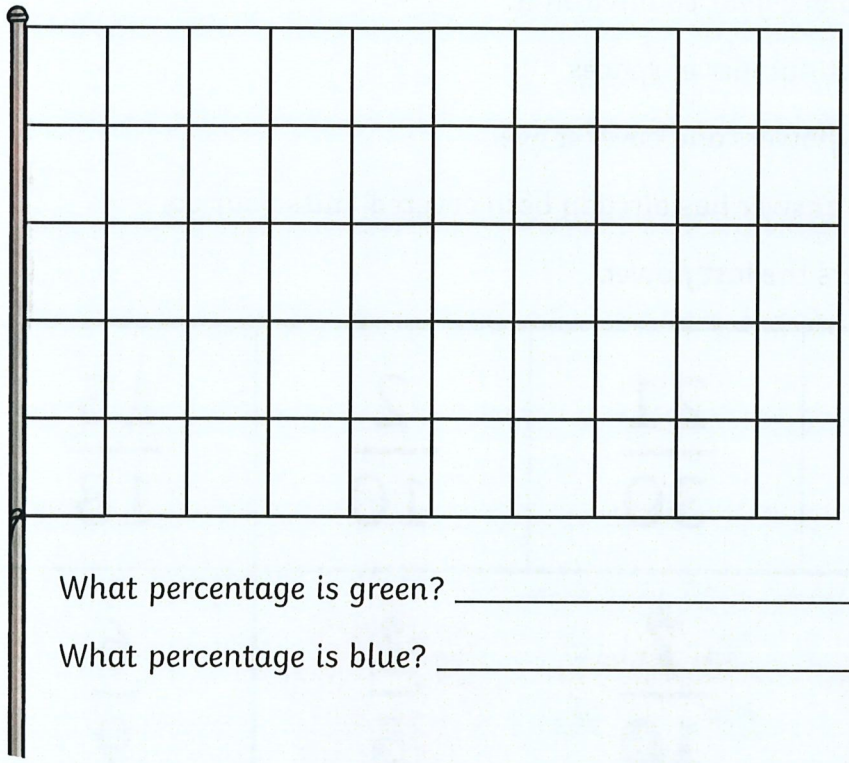
Grey:	Pink:	Blue:	Black:	White:
< 1	1 - 1.99	2 - 2.99	3 - 3.99	4 - 4.99

5.8 − 3.23	1.78 + 0.8	3.4 − 0.57	0.7 + 0.24	8.1 − 7.35	5.67 − 3.2	0.18 + 0.71	1.65 − 0.9	7.66 − 6.9	0.2 + 2.47
4.5 − 2.14	7.5 − 5.03	0.98 + 1.2	5.3 − 3.78	4.5 − 3.6	4.87 − 2.3	0.1 + 0.78	7.3 − 6.12	0.45 + 0.1	5.4 − 3.12
1.2 + 1.34	6.7 − 4.5	0.56 + 1.6	3.76 − 2.3	0.56 + 0.4	0.76 + 1.9	0.24 + 0.7	2.76 − 0.9	0.39 + 0.3	2.56 + 0.2
9.2 − 6.89	1.4 + 1.34	3.4 − 0.87	1.23 + 0.6	6.95 − 6.3	2.1 + 0.45	8.2 − 7.89	7.46 − 6.3	7.12 − 6.7	5.8 − 3.43
3.46 − 0.86	1.67 + 0.9	0.23 + 0.4	0.12 + 0.5	9.45 − 8.8	0.12 + 0.7	6.5 − 5.87	0.4 + 0.57	3.98 − 3.7	1.45 + 1.2
3.7 − 0.98	3.4 + 1.39	1.56 + 1.7	4.35 − 4.2	0.37 + 0.3	9.4 − 5.21	7.02 − 3.4	5.1 − 4.67	0.23 + 0.6	2.1 + 0.67
3.6 − 0.76	2.76 + 1.6	7.8 − 3.45	9.1 − 8.56	6.12 − 5.4	6.07 − 1.4	2.76 + 1.6	1.56 − 0.8	7.57 − 6.9	5.6 − 3.16
4.5 − 3.88	0.54 + 0.3	3.2 − 2.87	0.56 + 0.2	7.5 − 6.89	2.3 − 1.87	0.23 + 0.6	0.87 + 0.1	6.35 − 5.7	2.4 + 0.23
7.12 − 6.4	0.76 + 0.8	0.56 + 0.9	3.7 − 2.09	0.34 + 0.5	8.9 − 7.93	0.06 + 0.4	3.4 − 2.67	0.4 + 0.38	8.7 − 6.23
0.37 + 0.6	4.5 − 4.07	2.56 − 1.2	3.4 − 3.03	5.05 − 4.1	7.6 − 7.23	0.1 + 0.89	4.6 − 4.08	0.23 + 0.6	0.01 + 1.99

Spring Flags

These flags have been designed on centimetre square grids.

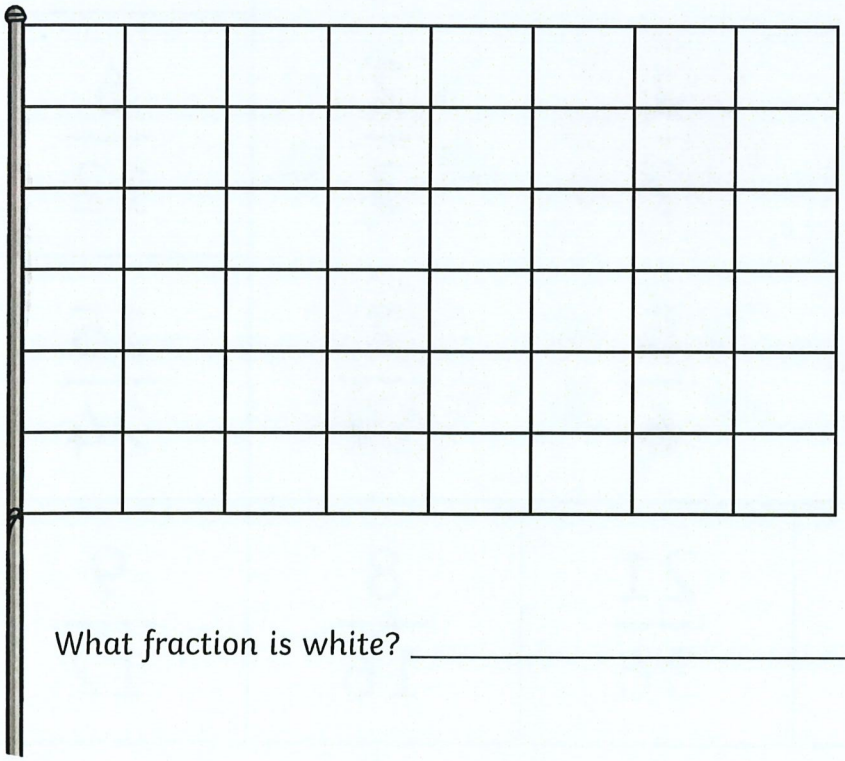
Colour the flags according to the fractions:



Red = $\frac{1}{5}$	____
Green = $\frac{3}{10}$	____
Blue = $\frac{1}{2}$	____

What percentage is green? _____.

What percentage is blue? _____.



Red = $\frac{1}{4}$	____
Green = $\frac{1}{3}$	____
Blue = $\frac{1}{8}$	____

What fraction is white? _____.

Converting Equivalent Fractions Board Game

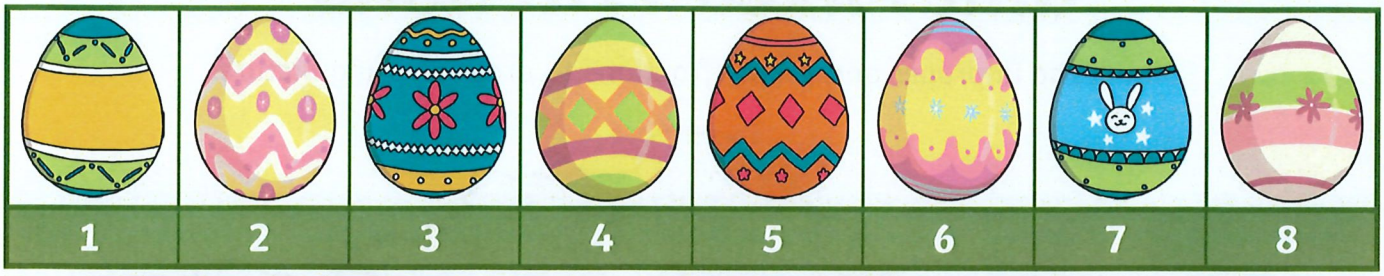
Instructions:

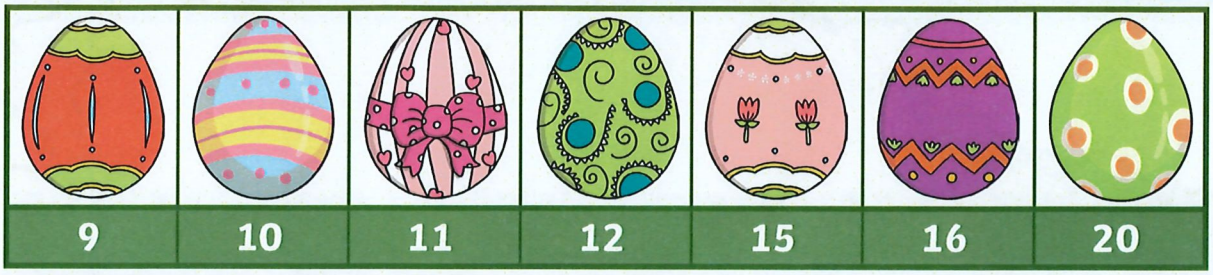
- Choose a space to start from and place your counter on it.
- Roll a dice and move clockwise that number of spaces.
- Find an equivalent fraction on the flowers and cover it over.
- If you land on a square where the answer has already been covered, miss your go.
- The winner is the player who covers the last flower.

$\frac{4}{8}$	$\frac{6}{8}$	$\frac{21}{30}$	$\frac{2}{10}$	$\frac{15}{18}$
$\frac{14}{24}$	$\frac{3}{4}$	$\frac{7}{10}$	$\frac{1}{5}$	$\frac{6}{9}$
$\frac{15}{20}$	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{2}{3}$	$\frac{6}{12}$
$\frac{22}{33}$	$\frac{3}{10}$	$\frac{5}{6}$	$\frac{7}{12}$	$\frac{15}{24}$
$\frac{9}{30}$	$\frac{3}{15}$	$\frac{21}{36}$	$\frac{8}{16}$	$\frac{9}{12}$

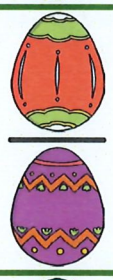
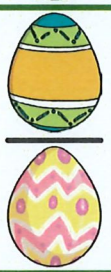
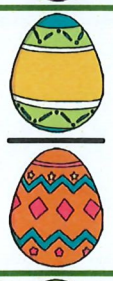
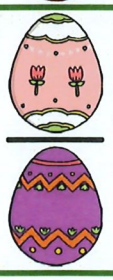
Order Egg Fractions

Here are some patterned eggs each representing a number:



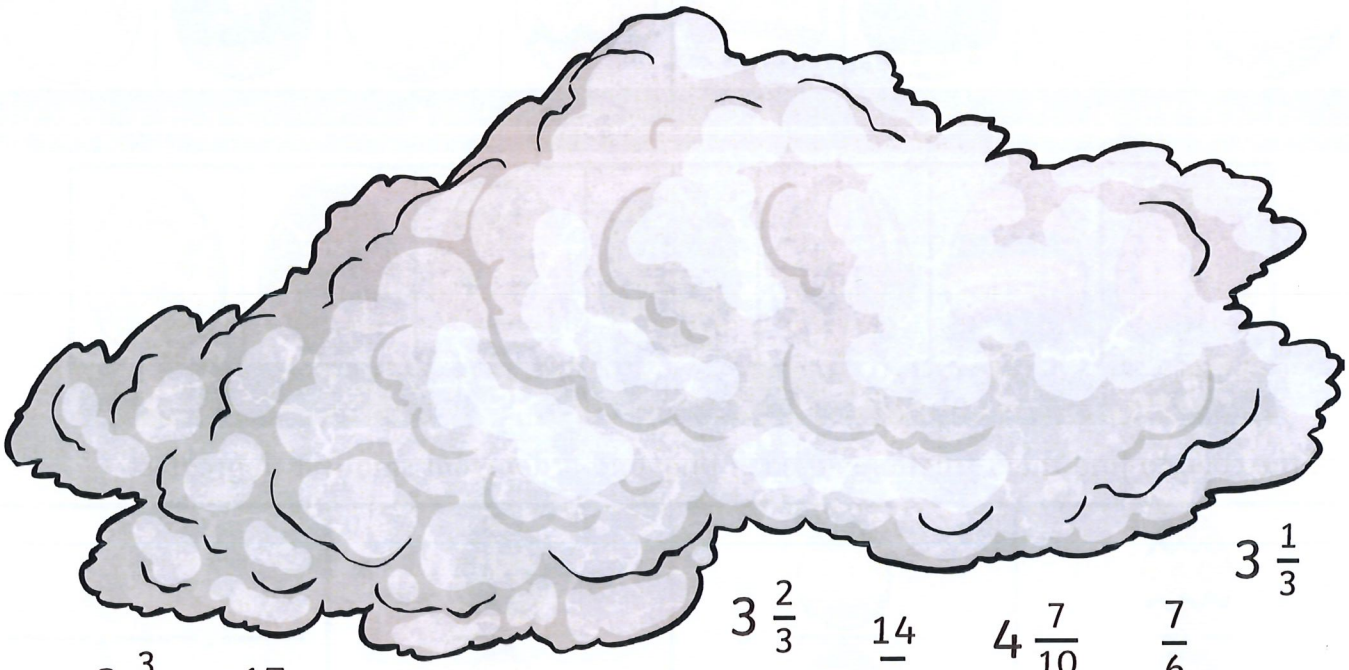


Use the code to find the 3 fractions in each line, and order from smallest to greatest.

			___ , ___ , ___
			___ , ___ , ___
			___ , ___ , ___
			___ , ___ , ___

Spring Improper and Mixed Fractions

Match the improper and proper fractions to draw a spring picture.

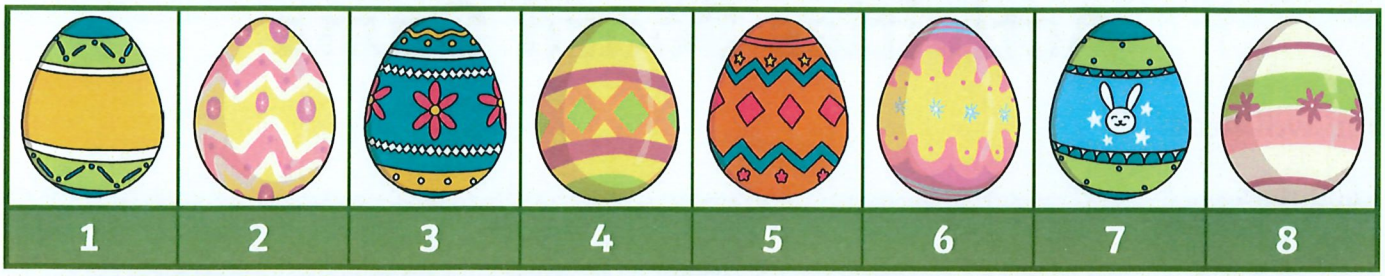


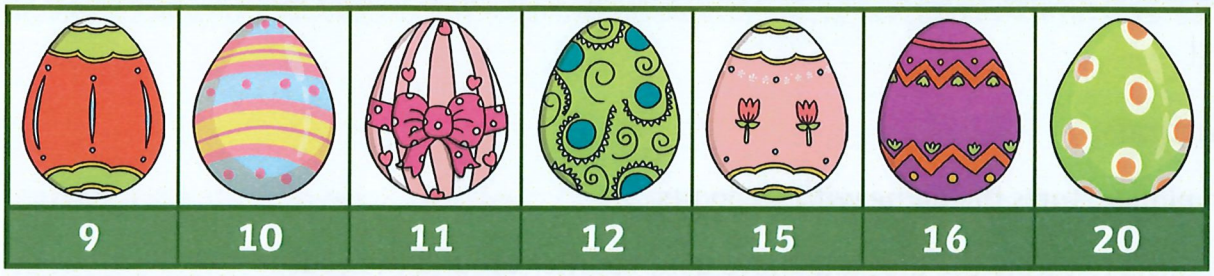
$3\frac{3}{4}$ $\frac{17}{6}$ $1\frac{7}{8}$ $\frac{13}{5}$ $4\frac{1}{2}$ $3\frac{2}{3}$ $\frac{14}{5}$ $4\frac{7}{10}$ $\frac{7}{6}$ $3\frac{1}{3}$

$3\frac{1}{4}$ $2\frac{1}{6}$ $\frac{11}{8}$ $\frac{9}{2}$ $\frac{11}{3}$ $4\frac{9}{10}$ $\frac{47}{10}$ $1\frac{5}{8}$ $\frac{15}{6}$ $\frac{10}{3}$

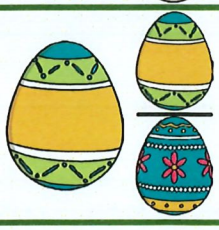
$\frac{15}{4}$ $2\frac{5}{6}$ $\frac{15}{8}$ $2\frac{3}{5}$ $2\frac{4}{5}$ $1\frac{5}{6}$ $\frac{12}{3}$ $1\frac{1}{6}$

Multiply Egg Fractions





Use the egg code above and calculate the following multiplications, giving your answer as a mixed number.

	×		
	×		
	×		
	×		
	×		

Spring Holiday Activities Board Game

You will need:

- counters
- a dice
- pencil

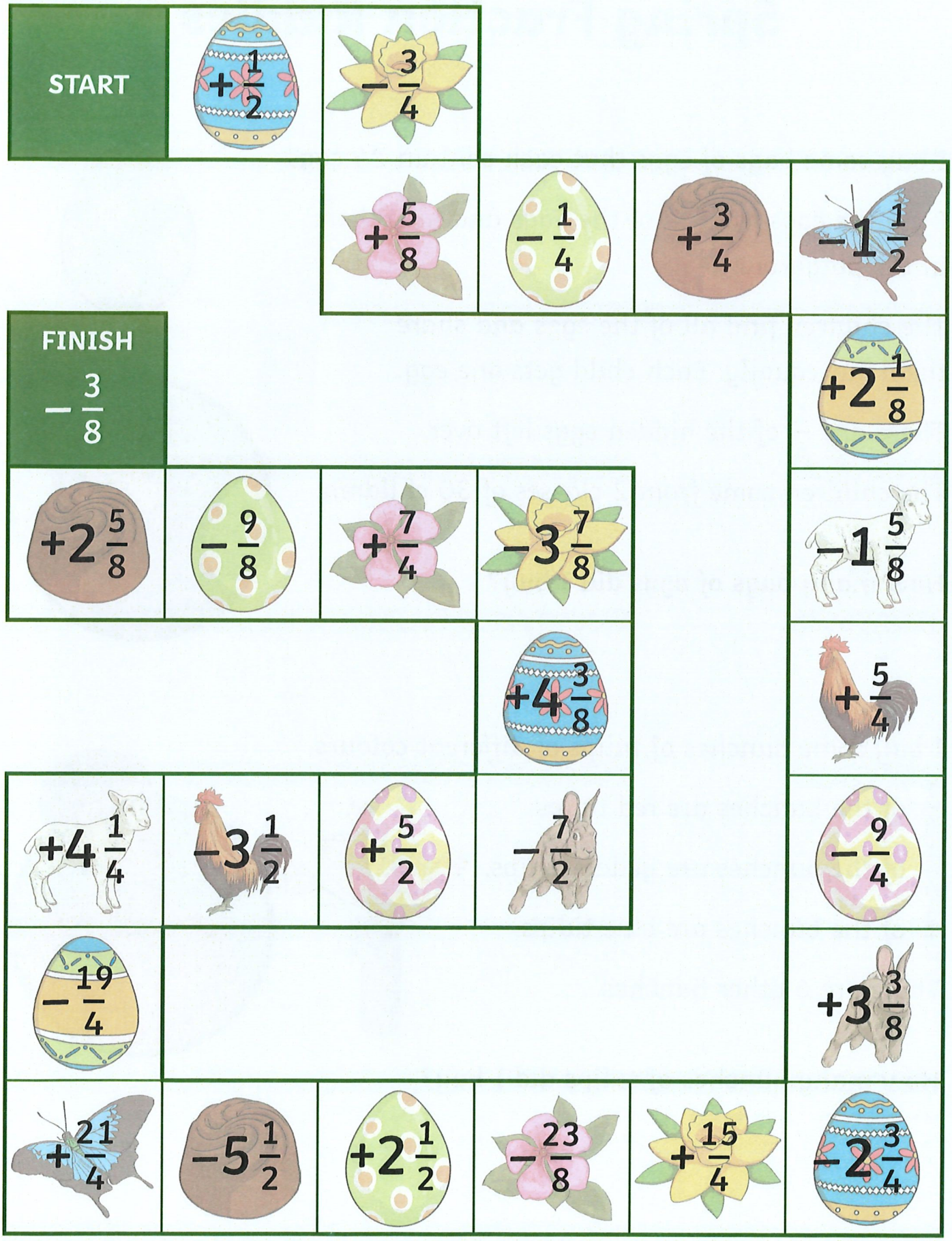
Instructions:

- Each player starts the game with 10 points.
- Take turns to throw the dice and move your counter around the board.
- When you land on a square, add or subtract the points on that square to or from your score.
- When a player reaches the finish, the player with the most points is the winner.

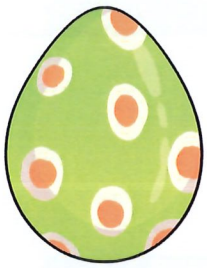
Keep track of your score here:

Name:	Name:	Name:	Name:
10	10	10	10

Spring Holiday Activities Board Game



Spring Fraction Riddles



I buy some bags of eggs that each contain 24 eggs.

I use the eggs from $\frac{3}{4}$ of the bags and hide them in the playground.

The children find all of the eggs and share them out equally. Each child gets one egg.

There are $\frac{1}{6}$ of the hidden eggs left over.

The children come from 2 classes of 30 children.

How many bags of eggs did I buy?

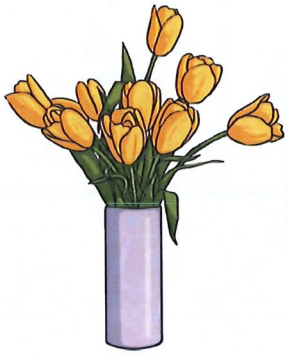
I buy some bunches of tulips of different colours.

$\frac{1}{6}$ of the bunches are red tulips.

$\frac{1}{4}$ of the bunches are yellow tulips.

$\frac{1}{3}$ of the bunches are blue tulips.

There are 6 other bunches.



How many bunches of tulips did I buy?

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.

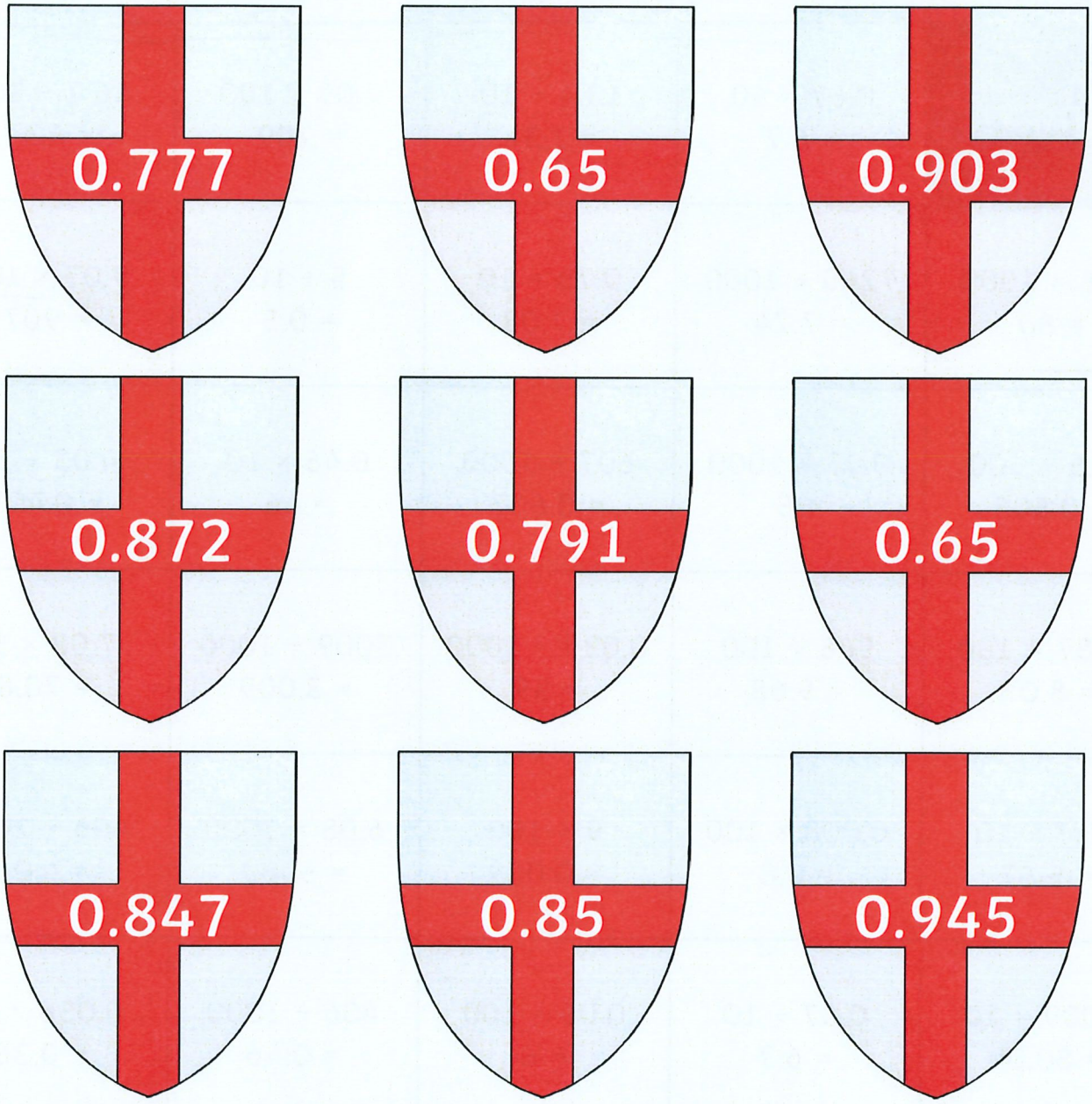
Can you solve the problems to see who discovers the whereabouts of Saint George's lance?

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 Viviene	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.

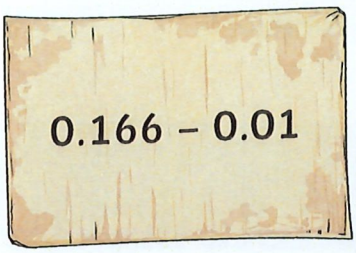
START	$0.67 \times 10 = 6.7$	$13.4 \div 10 = 1.34$	$2.09 \times 100 = 209$	$46.7 \div 100 = 4.67$
$0.08 \times 1000 = 80$	$7240 \div 1000 = 7.24$	$0.73 \times 10 = 7.03$	$5 \div 10 = 0.5$	$9.07 \times 100 = 907$
$50.5 \div 100 = 0.505$	$0.05 \times 1000 = 5$	$607 \div 1000 = 0.607$	$0.46 \times 10 = 46$	$4.03 \div 10 = 0.403$
$0.087 \times 100 = 8.07$	$968 \div 100 = 9.68$	$0.039 \times 1000 = 39$	$3009 \div 1000 = 3.009$	$7.08 \times 10 = 70.8$
$56.7 \div 10 = 5.67$	$0.008 \times 100 = 0.8$	$9 \div 100 = 0.009$	$6.08 \times 1000 = 6080$	$406 \div 1000 = 4.06$
$8.009 \times 10 = 80.09$	$0.67 \div 10 = 6.7$	$0.06 \times 100 = 6$	$406 \div 1000 = 0.46$	$0.036 \times 10 = 0.36$
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.

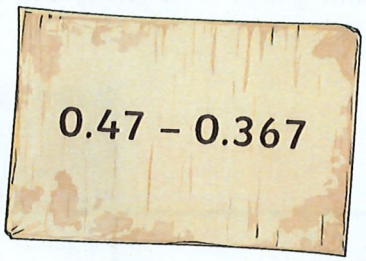
Clue: The emblem of the guest who finds the lance isn't a _____ or _____.

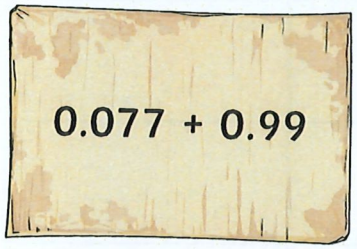
Clue 3: Adding and Subtracting Decimals

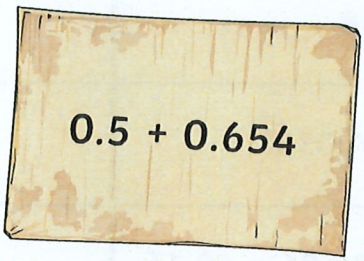
Match the answers to these calculations.

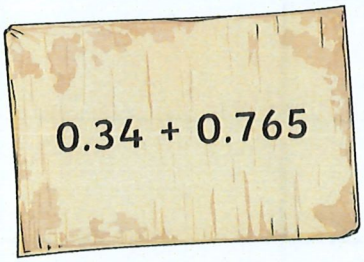
The one remaining answer box will give you a clue about the guest who finds the lance.

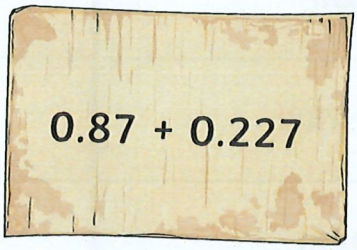


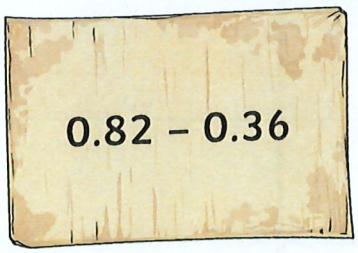


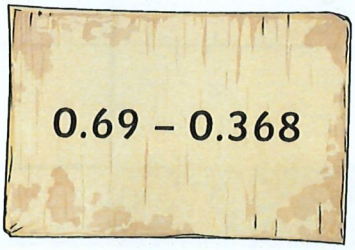












0.322 The guest's horse is grey or black.
1.067 The guest's horse is brown or black.
1.03 The guest's horse is grey or brown.
1.105 The guest's horse is chestnut or brown.
0.46 The guest's horse is chestnut or grey.
1.097 The guest's horse is chestnut or black.
0.103 The guest's horse is grey or chestnut.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

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 ✗
8.2kg + 670g = 14.9kg		
£10.45 – 87p = £9.58		
935ml more than 3.2l = 4.035l		
Subtract £1, 50p and 20p from £9.86 = £8.16		
2km + 465m = 6.65km		
0.578ml + 0.89ml = 1.468l		
35m + 298cm = 37.98m		
1700g + 3.4kg = 3.57kg		
£4.67 + 109p = £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 → 0.8	0.65 → 0.7	**0.903 → 0.9**
0.872 → 0.9	0.791 → 0.8	0.65 → 0.7
0.847 → 0.8	**0.85 → 0.9**	**0.945 → 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 ÷ 10 = 1.34	2.09 × 100 = 209	46.7 ÷ 100 = 4.67
0.08 × 1000 = 80	7240 ÷ 1000 = 7.24	0.73 × 10 = 7.03	5 ÷ 10 = 0.5	9.07 × 100 = 907
50.5 ÷ 100 = 0.505	0.05 × 1000 = 5	607 ÷ 1000 = 0.607	0.46 × 10 = 46	4.03 ÷ 10 = 0.403
0.087 × 100 = 8.07	968 ÷ 100 = 9.68	0.039 × 1000 = 39	3009 ÷ 1000 = 3.009	7.08 × 10 = 70.8
56.7 ÷ 10 = 5.67	0.008 × 100 = 0.8	9 ÷ 100 = 0.009	6.08 × 1000 = 6080	406 ÷ 1000 = 4.06
8.009 × 10 = 80.09	0.67 ÷ 10 = 6.7	0.06 × 100 = 6	406 ÷ 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 ✗
8.2kg + 670g = 14.9kg		✗
£10.45 – 87p = £9.58	✓	
935ml more than 3.2l = 4.035l		✗
Subtract £1, 50p and 20p from £9.86 = £8.16	✓	
2km + 465m = 6.65km		✗
0.578ml + 0.89ml = 1.468l	✓	
35m + 298cm = 37.98m	✓	
1700g + 3.4kg = 3.57kg		✗
£4.67 + 109p = £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.