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Year 6

Mathematics

Arithmetic: Paper 3

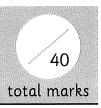
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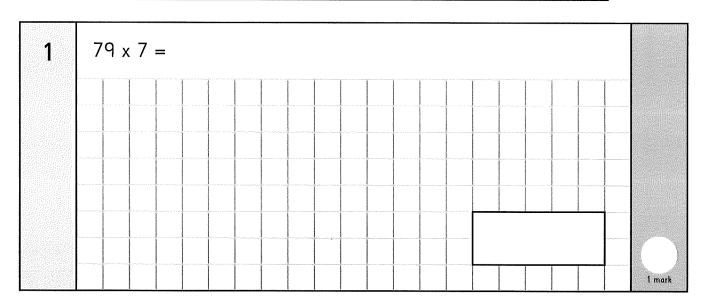


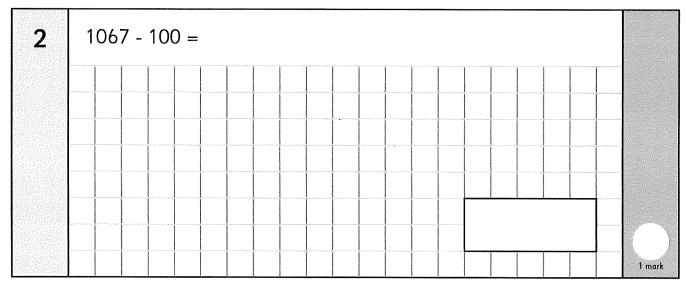


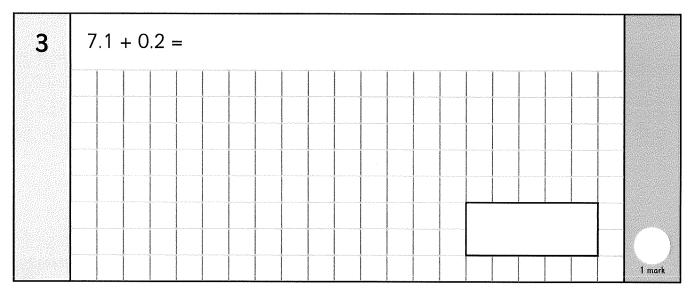




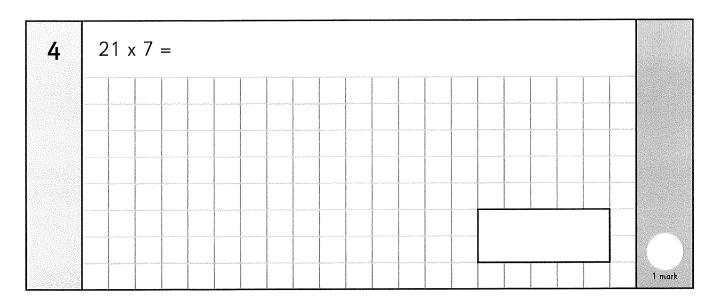


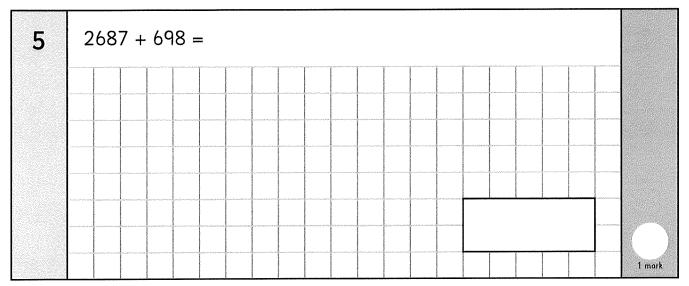


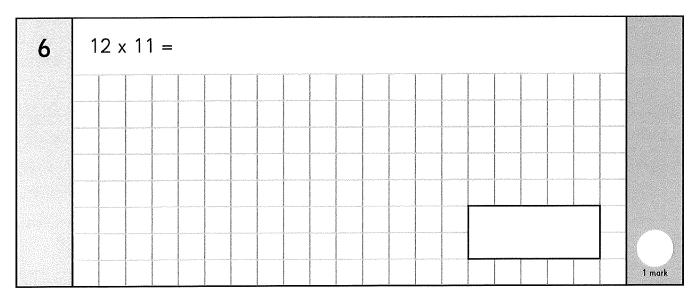




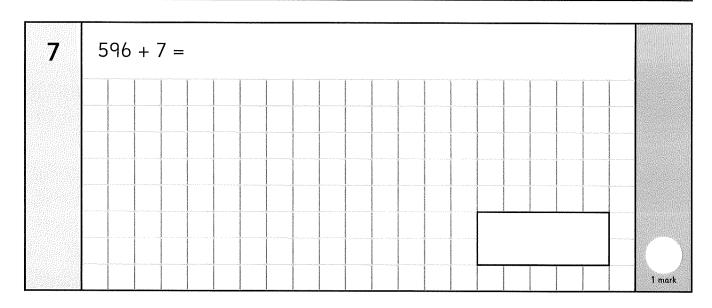


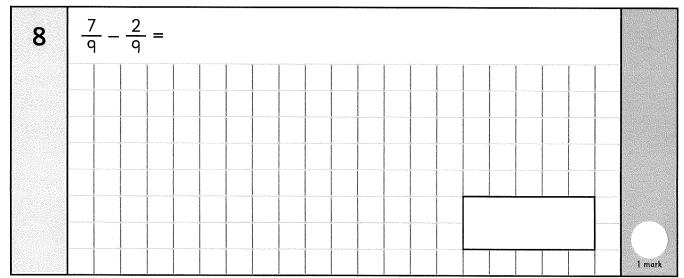


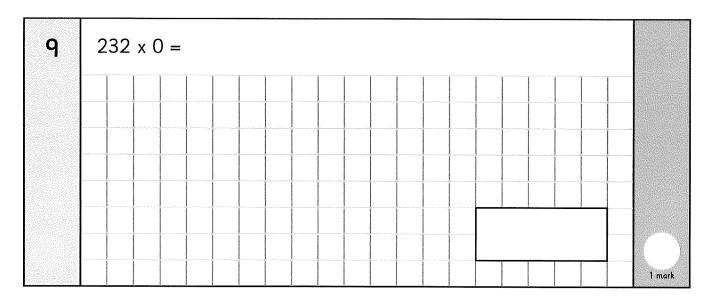




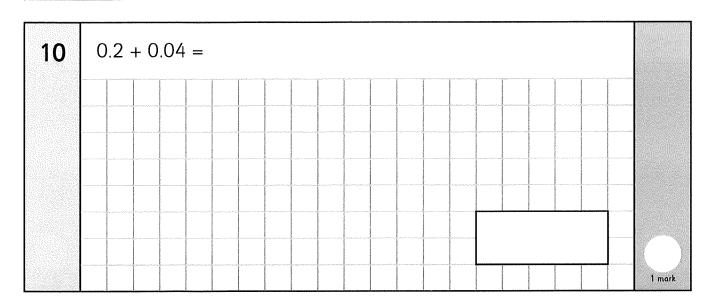


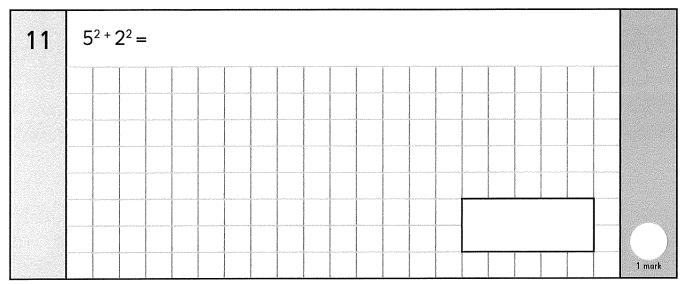


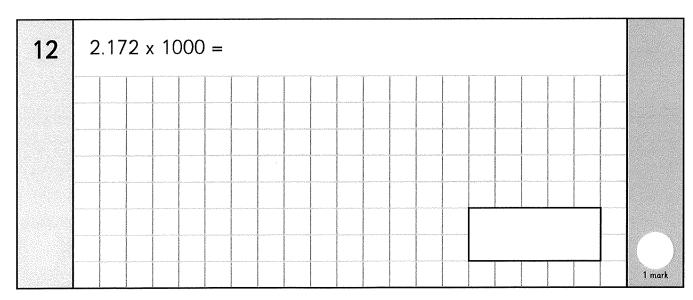




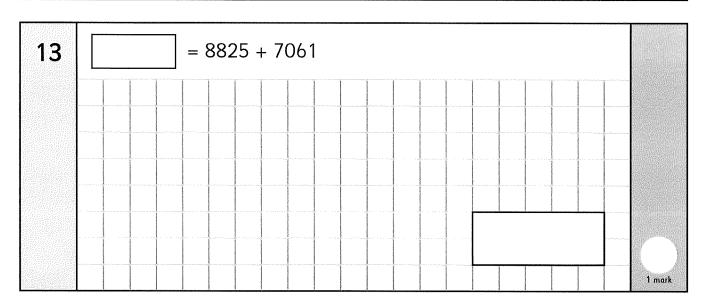


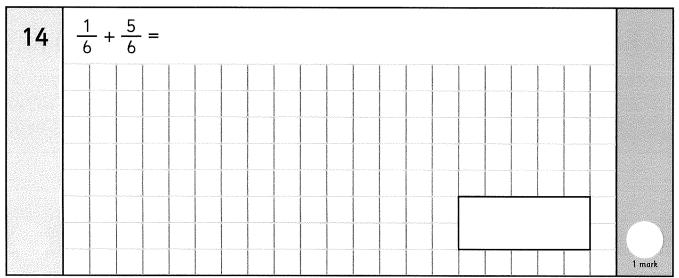


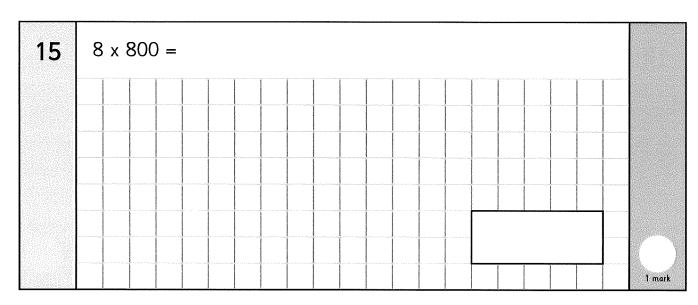




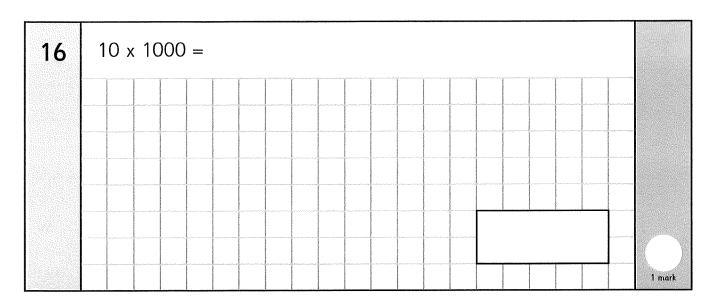


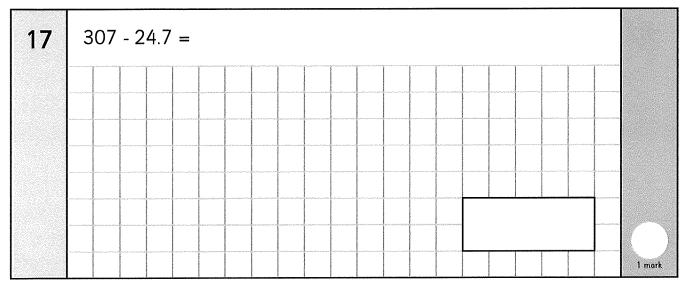


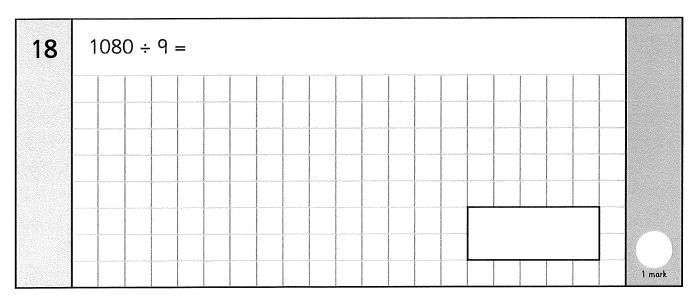




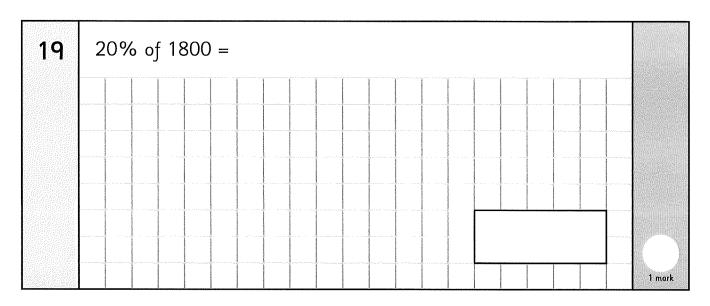


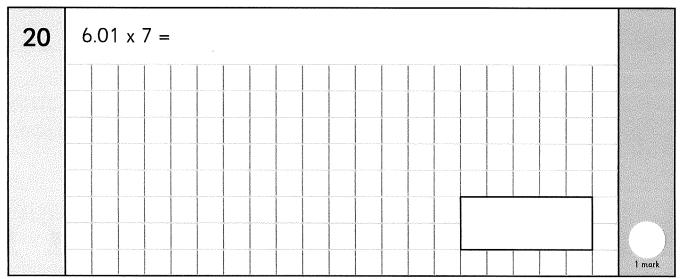


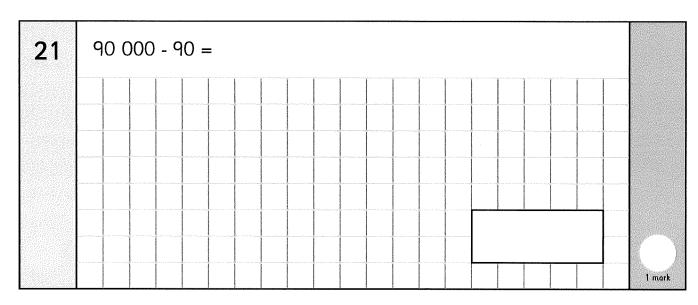






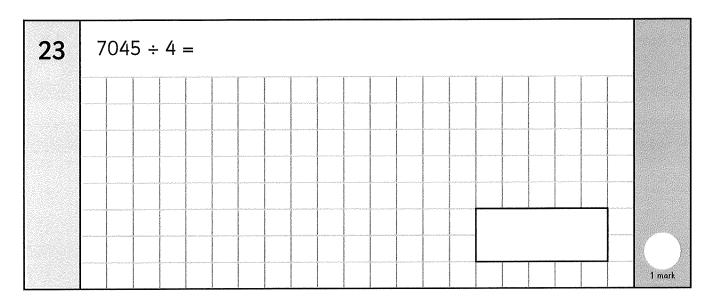








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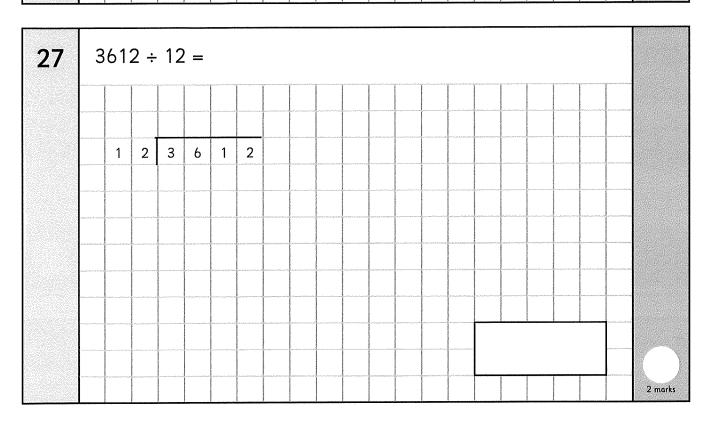


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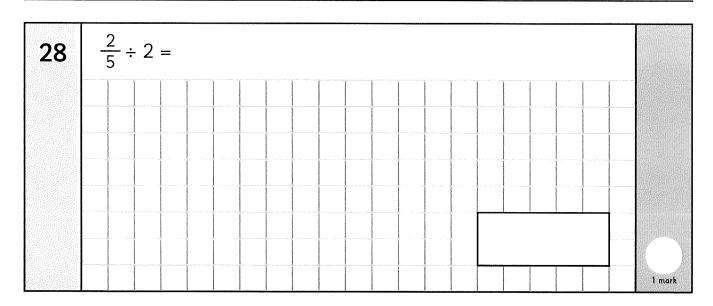
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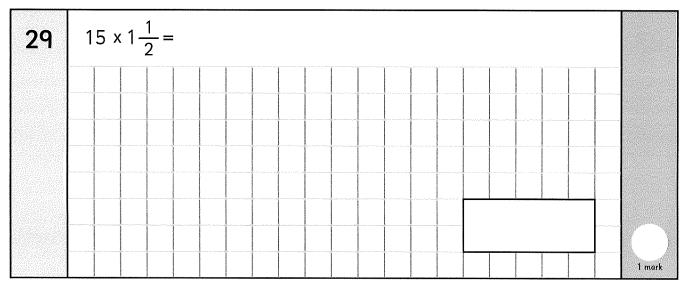


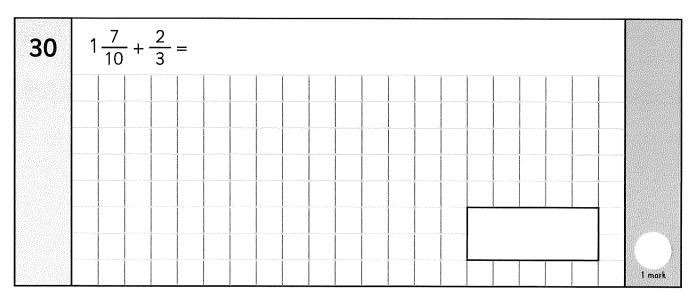
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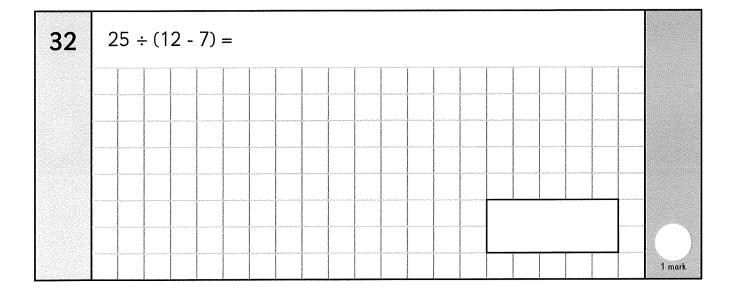




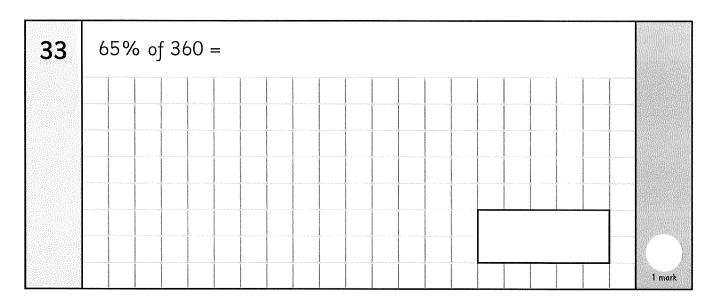


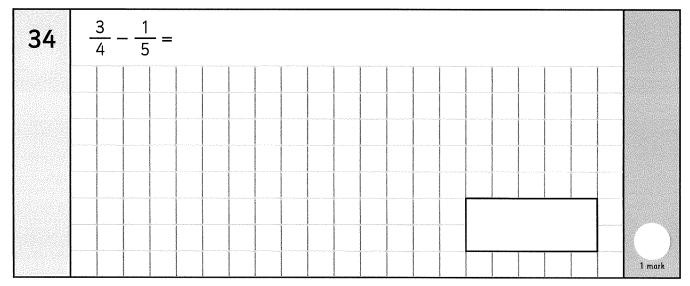


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Answer Sheet: Key Stage 2: arithmetic paper 3



Guidance: Children will have 30 minutes for this test. Long division and long multiplication questions are worth **2 marks** each. Children will be awarded 2 marks for a correct answer. They may get 1 mark for showing a formal method. All other questions are worth 1 mark each.

question	answer	marks
1	553	1
2	967	1
3	7.3	1
4	147	1
5	3385	1
6	132	1
7	603	1
8	<u>5</u> q	1
9	0	1
10	0.24	1
11	29	1
12	2172	1
13	15 886	1
14	1 or <u>6</u>	1
15	6400	1
16	10 000	1
. 17	282.3	1
18	120	1
· 19	360	1
20	42.07	1
21	89 910	1

question	answer	marks
22	8.21	1
23	1761.25 or 1761r1	1
24	1596	2
25	17 338	1
26	<u>2</u> 9	1
27	301	2
28	1 5	1
29	22 <u>1</u>	1
30	2 11 30	1
31	61 104	2
. 32	5	1
33	234	1
34	11 20	1
35	74	2
36	<u>1</u> 15	1
		Total 40

Section 1

two black and three blue pens. Muna needs eight black pens. How many red and blue A packet of pens has one red, pens will she get?

Section 2

$$y = 3x - 2$$

If
$$x = 4$$
, what is y?

Section 4

Section 3

Calculate

Calculate:

+0% of £64 =

H	
690	
of	
%	

Section 8

of pencils algebraically, using p to represent the total number of are freshly sharpened, six need sharpening and seven are brand new. Express the total number Ishfaq has some pencils. 13 pencils.

Section 6

of area the Calculate triangle.

> There are 42 people in a cinema. Coffee

Section 5

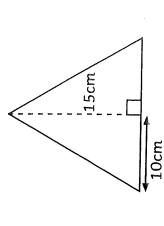
£1.50. The takings

costs £2.40 and tea

are £81, of which

£33 was taken on tea. How many

people drink coffee?



Section 7

this

shape with internal angles of Write the name of a regular





Section 1

pens. Asjal says that if he buys enough packets to get at least 10 blue and eight black pens, he will two red, one green and three black have five red and two green pens. Packets of pens contain four blue, Explain why Asjal is incorrect.

Section 2

If x = 5, what is y?

If y = -2, what is x?

Section 4

Section 3

Calculate

12 Calculate:

415 101

69% of £107 =

16% of £39 =

Section 8

shape with internal angles of

Write the name of a regular

Section 7

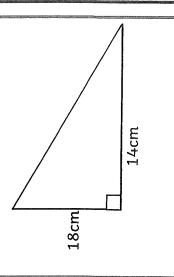
Aisha has somepencils. N is the number of new pencils, q is the number of blunt pencils and r is the number of freshly sharpened of pencils algebraically, using p to represent the total number of pencils. Express the total number pencils.

Section 5

total takings were There were 53 people in a cinema. Coffee £1.60. The takings £112.40. How many costs £2.75 and tea for tea is £46.40 The people drank coffee?

of area Calculate the Section 6 triangle.

this



<u></u>

many milk and white chocolate eggs five plain chocolate eggs and three like 15 plain chocolate eggs. How white chocolate eggs. Jake would contain six milk chocolate eggs, Bags of mini chocolate eggs will he have?

If x = 4, what is y? y = 3x + 7

If y = 31, what is x?

15% of £46 = Calculate:

80% of £125 =

of the triangle.

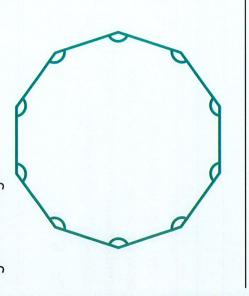
How many children did not wear 32cm². Calculate the height This triangle has an area of school uniform?

4cm Height:

Calculate the angles in this regular decagon:

1 + 8 | 1 | 1

Calculate:



£1.50 to not wear uniform. There

For Comic Relief, a school have two activities. Children paid was also a bake sale that raised

£56.25 out of the total £423.75.

to represent the number hours Miles seven hours at school and is awake is asleep in a day, when he spends Express the answer to this word problem algebraically, using h for another nine hours.

(2)

Year 6 Spring 2 Maths Activity Mat

Use these clues to find the number:

- The number has six digits.
- The number is less than 300 000.
- Nine is a factor of the number.
- Three digits are even and three are odd.
- The second digit is the first digit cubed.
- The tens digit has no value.
- The thousands digit is seven times the hundreds digit.

Write 1.625 as an improper fraction?

are medium size. The remaining eggs are large and extra large. 25% of the How many extra large eggs are sold? remaining eggs sold are extra large. eggs. Altogether it sells 5982 eggs, of which 1697 are small and 1049 A shop sells four sizes of Easter

215 3 ÷ 4 = Complete:

= 7 ÷

9 lemonade and three litres of juice. How much drink would each child have if 16 children. She uses four litres of Alice makes a drink for a party of the drink was shared equally?

4

×

9

Calculate:

(4,3)Write the missing coordinates (-1,5) for this kite.

combinations showing the possible between 5 and 9. Write all the a and b are whole numbers values of a and b where:

00

2a - b = 8





-20°C. What should be the maximum and in a freezer between -18°C and temperatures between a fridge and should be between 1°C and 4°C, and minimum differences in The temperature in a fridge

Calculate in your head:

$$612 - 593 =$$

Calculate the volume of this

cuboid

พวร

11cm

Volume =

Calculate:

$$7 \times (3 + 6) =$$

$$98 - 12 \times 8 =$$

$$(45 + 19) \div 8 =$$

Describe the radius and the

4

diameter of a circle.

612

 $\frac{3}{4}$ 0.75 $\frac{7}{8}$

Circle the odd one out.

Find the mean of these numbers:

the distance to an appropriate figure.

855 miles from the Earth. Round

The moon is an average of 238

The average distance from the earth

rounded to the nearest

to the moon is

00

46, 38, 29, 40, 61

Round the following numbers to the nearest ten million.

23 891 500

85 000 000

44 500 000

Calculate:

$$\frac{1}{3} \times \frac{1}{1} = \frac{1}{12}$$

$$\frac{1}{1} \times \frac{2}{3} = \frac{2}{30}$$

$$\frac{3}{4} \times \frac{2}{3} = \frac{1}{2}$$

~

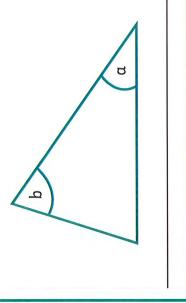
Use this Carroll diagram to write

the common factors of 8 and 18.

Estimate angles a and b.

4

(m)



Find three pairs of numbers that satisfy these equations:

$$2a - b = 5$$

$$c + 4d = 15$$

Calculate, writing the answer as a decimal:

> Not a factor of 8

Factor of 8

S

8 510

Factor of 18

Not a factor

Write possible measurements for the sides of this rectangle.

9

Area = $24cm^2$

3

Perimeter = 22cm

What number, when halved, is three times 16?



(7)

Year 6 Spring 2 Maths Activity Mat

What is the value of the digit in the hundred thousands place in the number 7 802 314?

sheep. The rest are pigs. How many There are 13 562 sheep and 2893 A farmer has 24 092 animals. pigs does the farmer have?

 $0.03 \times 9 =$

 $0.07 \times 8 =$

 $0.04 \times 6 =$

Calculate:

Calculate: 14 7238

Use <, =, or > to compare these fractions.

Name this shape.

4

110

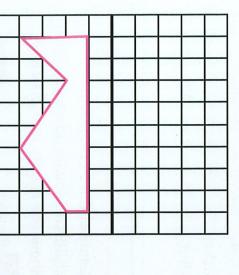
5/2 010 613

2

5

Reflect this shape about the thick black vertical line.

00



9

How many miles is a

10 000m race?

1 mile ≈ 1600m

Order the following numbers

776

	76 677	
rgest:	5 776, 767 767, 767 677, 776 677	
m smallest to largest:	767 767,	
m sma	5 776,	

Tick the reasonable estimates. answers to some calculations. Here are some estimated

- \square 785 × 8 ≈ 7000
- \Box 65 712 34 989 \approx 20 000
- $\square 653 \div 13 \approx 50$

Explain why any estimates are unreasonable.

How many groups of eight children A teacher organises 354 children into groups of eight children. will there be? 4 Simplify the following fractions. 24 32 915

 $0.1 \times 100 =$ $0.8 \times 100 =$ $0.4 \times 100 =$ Calculate:

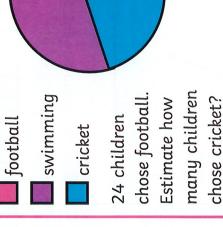
 $l = 5800 \, \text{ml}$ Convert the following: 0.31 =

other. The other face is a curved face circles, which are parallel to each that joins the circles. What am I? I have two flat faces that are

<u>-</u>

Some children research	children's favourite sports. They	show the results in a pie chart.

00





H

smallest to largest, writing the answers Order the following numbers from in numerals:

seven hundred and sixty-six; seven hundred thousand, six hundred and seventy-seven. and sixty-seven thousand, seven hundred seventy-six; seven hundred and sixty-six Seven hundred and sixty-six thousand, and seventy-seven; seven hundred and sixty-seven thousand, six hundred and

	100	
		١.
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2 some calculations. Tick the reasonable Here are some estimated answers to estimates.

 $0.4 \times 1001 =$

0.9 × 1010 =

- $1508 \times 12 \approx 6000$
- $9231409 5791231 \approx 3500000$
- $176\,012 \div 17 \approx 3000$

Explain your answers.

into groups of eight. How many groups of children. The children are arranged A school has 21 classes of 28 eight children will there be?

Simplify the following fractions.

4

15

 $0.7 \times 110 =$

Calculate:

Convert the following:

cl = 0.093l8ml =

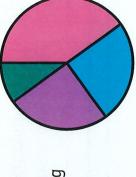
triangles. What am I? Draw me. I have eight faces that are all

 $\overline{\mathbf{T}}$

favourite sports. They show the results Some children research children's in a pie chart.

00





how many children chose each of the 40 children chose cricket. Estimate other sports?

Football Golf

Swimming

(2)

Year 6 Spring 2 Maths Activity Mat

multiples of three but not 0, and no of the digits is 36, all the digits are than one million, where the sum Write a number that is more consecutive digits are equal. 2 the area of the first. How many acres area of 65 341 acres, another twice Three farms cover an area of 235 892 acres. One farm covers an is the last farm?

Calculate:

-84

2_ | 998_

Use <, =, or > to compare these fractions.

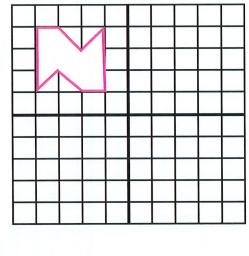
Name this shape.

4

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	1		Ī	ι	5
	•		•	Ī	-

Reflect this shape about the thick black vertical line.

00



1 mile ≈ 1600m

3

 $0.07 \times 0.04 =$

 $= 90.0 \times 6.0$

 $0.8 \times 0.5 =$

Calculate:

How many kilometres is a marathon A marathon is about 26 miles. to the nearest 100m?



(m)

Year 6 Spring 2 Maths Activity Mat

Round the following numbers to the nearest five million.

22 500 000

27 500 000

000 064 49

the common factors of 14 and 35. Draw a Carroll diagram to write

Calculate:

$$\frac{7}{8} \times \frac{4}{-10} = \frac{7}{10}$$

Calculate, writing the answer as a decimal:

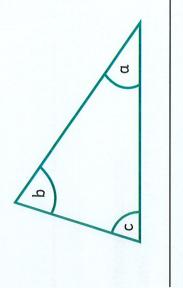
N

Draw (not to scale) a rectangle rectangle, but with a different with the same area as this perimeter. Label the sides.

What number, when halved, is a

sixth of the sum of 34 and 14?

Estimate angles a,b and c.



Find three pairs of numbers that satisfy these equations:

00

$$2a - 3b = 9$$

9

temperature in C in a freezer to the to C, use the following formula: C =(F-32) ×5/9 What should be the should be at 0°F. To convert F The temperature in a freezer nearest tenth of a degree?

Calculate in your head:

$$425 - (150 + 50) =$$

384 - 134 =

 $(2+9) \times (7-2) =$

Calculate:

$$12 - 4 \times 5 + 8 =$$

$$(34 - 6) \div (9 - 2) =$$

where they are all equal except one with four fractions and a decimal Write an odd one out question number.

twice that of the other. (Concentric

means same centre.)

where the radius of one circle is

Draw two concentric circles

2016. Estimate the annual increase million in 2013 to 65.3 million in in the population of the UK to the Kingdom has risen from 64.1 The population of the United nearest hundred thousand.

cm³, where the edges are all whole Write the dimensions of three cuboids with a volume of 42 centimetres.

number possible?

number is 15, what is the largest numbers is 35.4. If the smallest The average of five whole

9

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Use these clues to find the number:

-

- This is a seven-digit number.
- The digits all add up to 37.
- There are only two different digits and no consecutive digits are the
- There are odd and even digits.

Find the missing numbers in this

calculation.

6

×

Write 3.875 as an improper fraction?

the remaining eggs, 75% are large and the est are extra large. How many medium, 2617 small eggs are sold. Twice as many nedium eggs as small eggs are sold. Of eggs. Altogether it sells 10 351 eggs. arge and extra large eggs are sold? A shop sells four sizes of Easter

 $\frac{3}{2} \div 2 = \frac{3}{8}$ Complete:

0

 ∞

0 9

4

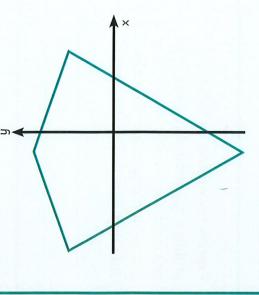
 $\div 4 = \frac{1}{10}$

S

9 How much drink would each child have of the juice of which he uses the least. uice in the ratio 2:3:1. He uses 1.75l 24 children. He uses three types of Alex makes a drink for a party of if the drink was shared equally?

Write possible coordinates for this kite.

(z)



4

combinations showing the possible between 4 and 10. Write all the a and b are whole numbers values of a and b where:

3a - b = 9

9

Year 6 Spring 2 Maths Activity Mat

H in a pack. How many of each egg are in milk chocolate eggs. There are 16 eggs eggs, 20 milk chocolate eggs and 12 Anita buys some packs of chocolate eggs. She has 32 plain chocolate

Calculate:

$$\frac{7}{20} + \frac{2}{5} + \frac{1}{10} =$$

Calculate the angles in this

4

regular dodecagon:

$$\frac{1}{4} - \frac{3}{16} =$$

S wore red, and 97 children paid to throw wet sponge at a teacher. Altogether, the children raised £528.50. 167 children a wet sponge at a teacher. How much to wear red, there is a bake sale, and For Comic Relief, a school has three the children can pay £2 to throw a activities. The children pay £1.50 did the bake sale make?

Calculate:

If y = 7, what is x?

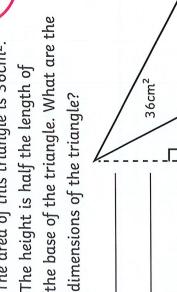
If x = 3, what is y?

2y = 5x + 9

37.5% of £186 =

The area of this triangle is 36cm². The height is half the length of





awake in a day, when he wakes up at represent the number hours Toby is problem algebraically, using h to Express the answer to this word 7am and goes to sleep at 8pm.

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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.







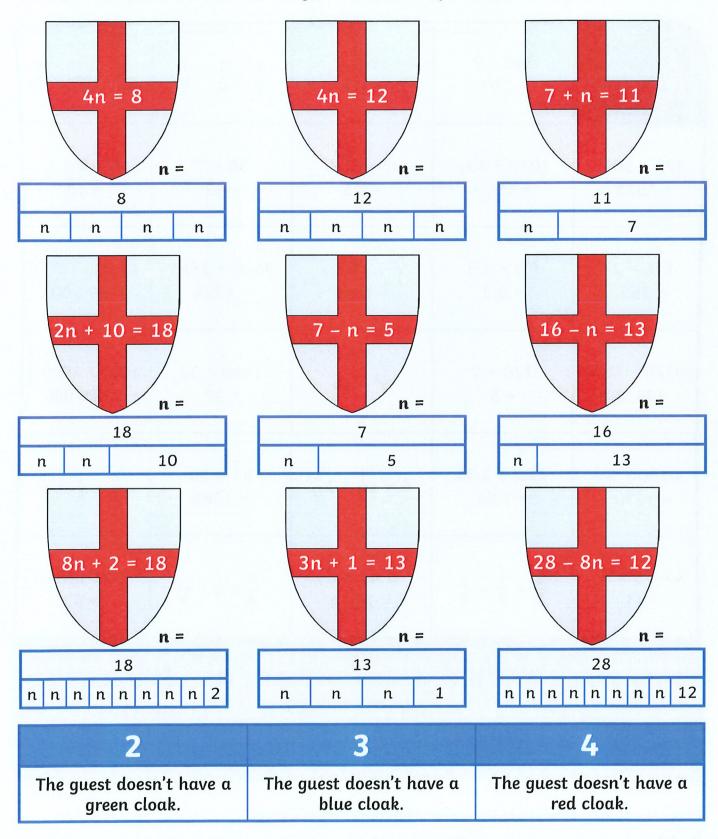
Guest	Gender	Cloak Colour	Age	Horse Colour	Emblem
Sir Accolon	Male	Red	45	Black	Dragon
Dame Brisen	Female	Blue	32	Black	Horse
Lady Catherine	Female	Red	48	Chestnut	Lion
Sir Dagonet	Male	Blue	25	Grey	Cross
Sir Ector	Male	Yellow	47	Brown	Cross
Lady la Fay	Female	Yellow	42	Grey	Dragon
Queen Guinevere	Female	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 Viviene	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.



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

Clue: The family emblem of the guest who found Saint George

isn't a _____or____.

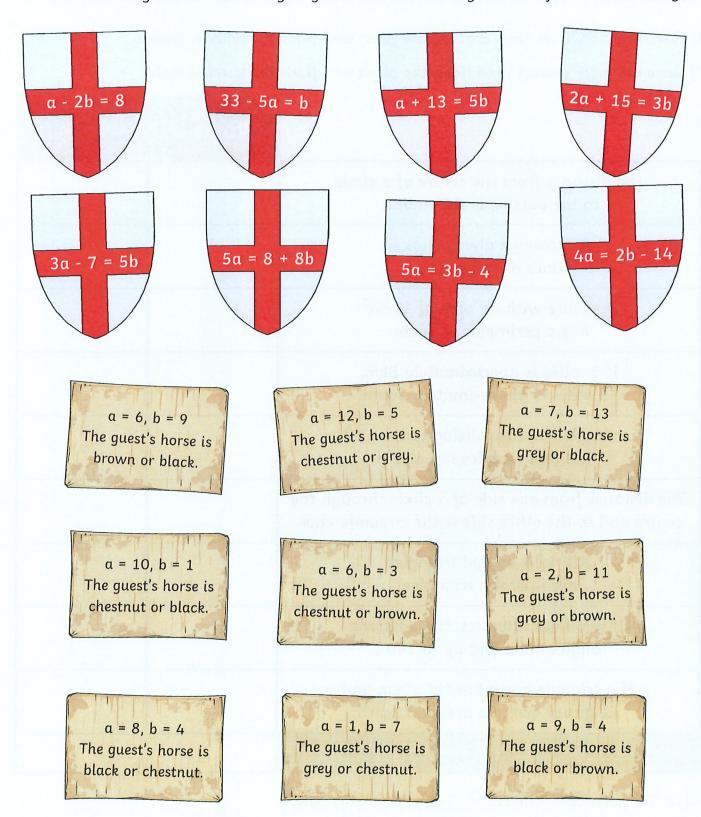




Clue 3: Find Pairs of Values

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 x
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 16cm² 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 30cm².		
Total		

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

(Circle the correct answer)



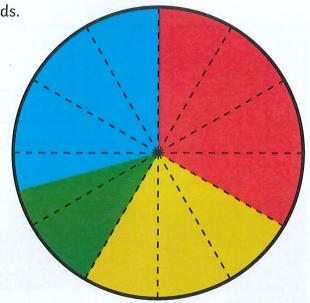


Clue 5: Pie Chart

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.





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?	<u>1</u> 4	<u>1</u> 5	<u>1</u>	$\frac{1}{8}$
What percentage of the shields are yellow?	25%	10%	15%	20%
What fraction of the knights have a yellow or green shield?	<u>1</u> 4	<u>1</u> 2	38	<u>5</u> 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
4n = 8	2
2n + 10 = 18	4
8n + 2 = 18	2

	n
4n = 12	3
7 – n = 5	2
3n + 1 = 13	4

	n
7 + n = 11	4
16 – n = 13	3
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

1 2	.			
START	306 – 9 = 297	32 × 4 = 128	$\frac{2}{9} + \frac{5}{9} = \frac{7}{9}$	$\frac{7}{10} - \frac{3}{10} = \frac{3}{10}$
928 + 100	1017 + 392	11 - 8.05	84 ÷ 7	6 × 5 × 3
= 1028	= 1509	= 3.5	= 13	= 75
176 × 2	6.4 + 1.9	6.7 - 0.05	3408 + 2865	70 000 - 700
= 352	= 8.3	= 6.65	= 6274	= 69300
207 376 - 72 198	720 ÷ 9	6 ² = 36	1440 ÷ 12	1000 × 1000
= 35 178	= 8		= 12	= 1 000 000
6150 ÷ 5 = 1230	11.7 - 3.84 = 7.86	$5 \times 1\frac{1}{2} = 7\frac{1}{2}$	47 × 19 = 1083	$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$
47 – 9 × 4 = 11	$\frac{1}{5} \times \frac{1}{3} = \frac{1}{8}$	1.43 × 8 = 15.44	$\frac{3}{8} \div 3 = \frac{1}{8}$	20% of 160 = 32
The emblem of	The emblem of	The emblem of	The emblem of	The emblem of
the guest who	the guest who	the guest who	the guest who	the guest who
found Saint	found Saint	found Saint	found Saint	found Saint
George is not a	George is not a	George is not a	George is not a	George is not a
cross or horse.	lion or horse.	lion or dragon.	cross or lion.	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

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

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

lue 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 16cm² 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?	<u>1</u> 4	<u>1</u> 5	<u>1</u> 6	1 8
What percentage of the shields are yellow?	25%	10%	15%	20%
What fraction of the knights have a yellow or green shield?	<u>1</u>	1 2	3 8	<u>5</u> 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.



Quality Standard

FRACTIONS

There are 30 children in a class.

 $\frac{2}{5}$ of them are girls.

How many boys are in the class?

Propince Code, Wellingto (1) - H. Wade in UK

MEASURES MONEY

Kerry bought 3 presents. The cheapest present cost £2.80, the most expensive present cost twice as much and the final present was exactly halfway between the prices of the other two presents.

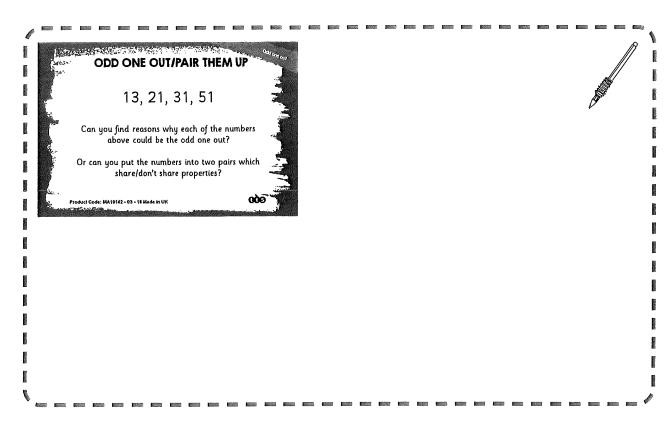
How much did each present cost?

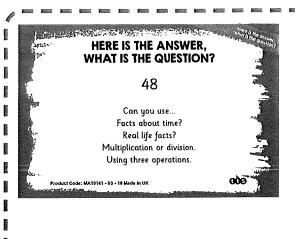
How much did she spend altogether?

Product Code: MASD475 - 11 - 18 Made in UK

Reasoning

Test your knowledge and combine your mathematical skills to help solve these reasoning problems.

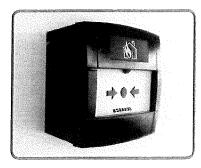






Fire Drills i

Fire drills are an essential part of school logistics as they are designed to keep everyone safe in the event of a fire. A drill simply means doing the same thing until it becomes second nature. This is what you do in your school when carrying out a fire drill, so everyone knows what to do should there be a real fire. Sometimes, you will have prior warning about a drill, whereas others times you might not. Nevertheless, at any time there could be a genuine fire and you would need to carry out the drill perfectly to keep everyone safe.







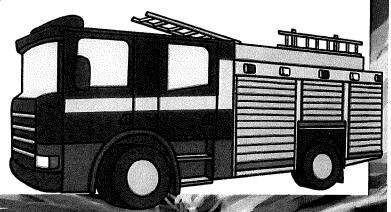
Responding to a Fire Drill

The drill commences with the sound of your fire bell or fire alarm. This will be different from school to school, however, it will be louder and will not sound similar to the bells you are used to. This is to make it crystal clear that it is a fire alarm. In a drill, it will be the premises manager or the headteacher that will usually trigger the alarm. Someone will also start a timer to see how long it takes everyone to get out of the building to safety.

On hearing the alarm, everyone immediately stops what they are doing, stands up, puts chairs back under tables and walks to the nearest exit. Children should not talk so that if teachers need to give instructions, everyone can hear. If you are not in close proximity to your usual exit or your exit is blocked, then you should look for the green emergency exit signs which will direct you to the nearest exit. These signs can be found in all public building, not just schools.

Page 1 of 4

As everyone leaves the building, all the doors will be shut behind them — this is because closed doors stop fires spreading from one room to the next quickly and limits air and oxygen circulating around the building, which would help a fire grow and spread quicker.







Once everyone is out of the building, the whole school (including all staff) will assemble, lined up in classes, so that teachers can check everyone is present and out of the building. Again, it is really important to keep silent so that any messages or instructions can get through. The teachers will tell the headteacher, or the person in charge of the drill, if their class are all there. If anyone was missing in a real fire, then the fire brigade would need to know that someone was still in the building, so they could be rescued.

Remember!

Fire drills are nothing to be too concerned about; think about them as being prepared. Listening and remembering what to do, however, will help to keep everyone safe!

Things you can do to help yourself and the school:

• If you hear the fire alarm, just go quickly and quietly (but don't run) to the nearest exit and out to the assembly point.

Page 2 of 4

- If you've been sitting on a chair, push it back under the table.
- Listen to what all the adults are saying.
- · Know what to do if you find a fire in school.
- · Keep an eye out for things that could cause a fire in school.







Fire Drills Questions

1.	Why are drills essential in fire safety?
2.	How will you know that it's the fire alarm and not your normal school bell?
3.	Why do you think doing many drills will help in a real fire situation?
4.	Why do you think all public building need to have emergency exit signs?
5.	Why do you think you need to put chairs back under tables if you've been sitting on them?
6.	Why would shouting or panicking not help others or yourself in a fire drill or real fire situation?
7.	In a real fire, when in the sequence of events would the fire brigade be called?





In the sixth paragraph, what does the word 'assemble' mean?
Name four things you can do to help yourself and others in a fire drill.
What reasons might you be separated from your class when the alarm goes and what would you do in this situation?



Loster Grispy Cookies Recipe

You Will Need:

3 tbsps butter or margarine 300g regular marshmallows 6 cups rice pops Icing sugar

Sprinkles

Large roasting tin

Cooking spray Greaseproof paper

Egg-shaped cookie cutter

Large saucepan

Cooling rack Method:





- 1. Melt the butter in a large saucepan.
- Add the marshmallows and stir until they have all meted.
- 3. Take the saucepan off the heat and add the rice pops.
- 4. Stir all the ingredients together until the rice pops are all covered in marshmallows and butter.
- 5. Prepare the roasting tin by coating it with cooking spray and pour the mixture in.
- 6. Put the greaseproof paper over the mixture to prevent it from sticking, and roll it out.
- 7. Using the egg-shaped cookie cutter, cut the mixture into egg shapes.
- (If the mixture keeps sticking to the cutter, dip it in water).
- 8. Put the eggs on a cooling rack until they have set.
- 9. Make up some icing sugar. This will be used to stick the sprinkles onto the egg. (You could also use melted chocolate if you prefer.)
- 10. Dip one end of the eggs into the icing sugar then into the sprinkles.
- 11. Leave the eggs to set.



Mini Lava Lamps

This science activity will require a few items from your kitchen and an adult to help. Many thanks to Sue Martin for this amazing kitchen science lesson.

For the grown ups

Making 'lava lamps' seems like a difficult proposition for a group of primary school children - but it couldn't be easier! Gather together some readily available materials and they will be up and running in minutes. Now your children are learning about immiscible liquids, chemical reactions, dissolving; and having fun!

What you do

1. Pour cooking oil into the test tube until it is approximately 3/4 full.



- 2. Top up the tube or beaker with water. Leave about 1cm of space at the top to prevent overflowing. Notice that the water falls to the bottom of the bottle.
- 3. Break an Alka-seltzer or effervescent vitamin C tablet into around 6-8 small pieces and drop a piece into the test tube. Again, watch as it travels through the oil and into the water at the bottom. The water will begin to fizz and your mini lava lamp erupts into action.
- 4. As fizzing stops, add further pieces of tablet, until all bubbling ceases.
- 5. With a lid screwed on you can tip the jar or bottle back and forth, watching waves appear. (Be careful not to screw a lid onto the bottle or jar when the tablet is still active as pressure will build up in the container, either forcing the contents out as you open it or blowing the top off).

What you need

- Large jar or bottle with screw lid
- Cookina oil
- Alka-seltzerTM or effervescent vitamin C tablet
- Food colouring (optional)
- Water

What's happening?

Water and oil are immiscible (they don't mix). Water is also denser than oil (i.e. for the same volume of each, water is heavier than oil). So the water sinks below the oil, which floats on top. Alka-seltzer and effervescent Vitamin C tablets contain chemicals that can only react together when they are wet. They are denser than both oil and water, so fall to the bottom of the test tube.

As soon as a piece comes into contact with the water layer, a reaction occurs between the chemicals. producing carbon dioxide (CO2) gas. These CO2 bubbles attach themselves to 'blobs' of the water like floats, causing them to rise to the surface, through the oil layer. There, the gas bubbles pop, the water loses its float and sinks back through the oil to the bottom of the test tube.

This process can continue whilst the tablet continues to react and produce CO2. When the reaction stops, the two layers settle back. If you use Vitamin C tablets, dye (food colouring) is often also present in the tablet. This dissolves in the water layer and produces coloured 'lava'. The children may observe that this occurs over a short period of time rather than immediately. Dissolving is a physical change, which is reversible. The dye is simply dispersed in the water. A few drops of any food colouring may also be added to the bottle if colourless tablets such as Alka-selzer are used and will be observed to dissolve only in the water layer, to create coloured 'lava'.

Once the reaction is over, with a lid on the test tube you can observe the motion of oil and water as you rotate the test tube - the oil layer remains above the water. Even if it is shaken, mixing only occurs

Draw and label how you set up your experiment in the step boxes below:	
Step 1	Step 2
Step 3	Step 4
Results – What happened? What have you learnt from this experiment?	



No bake recipes

With the help of an adult have a go at one (or both!) of these delicious no bake recipes at home.



120 g butter 2 cups caster sugar 2 tbs cocoa (sifted) 1/2 cup milk 1/2 cup Nutella (Or any other chocolate spread) 1 tbs vanilla extract 2¹/₂ cups rolled oats 21/2 cups Rice crispies sprinkles

- 1. Line a backing tray with baking paper and set aside.
- 2. With an adults help: in a large saucepan melt the butter then add sugar, cocoa and milk. Whisk together and bring to the boil. Boil for one minute. Remove from heat.
- 3. Add the Nutella, vanilla, rolled oats and rice crispies to the pan and combine well.
- 4. Pour into slice pan and smooth flat with the back of a metal spoon. Scatter over your choice of sprinkles. (I used coated chocolate chips.)
- 5. Refrigerate until set. This will take about 3 hours. Cut into squares with a sharp knife.

15 digestive biscuits 15 marshmallows 15 glacé cherries, cut in half about 200ml condensed milk 100g desiccated coconut, to coat

- 1. Crush the digestive biscuits in a food processor or in a plastic bag with a rolling pin, then put them in a large mixing bowl.
- 2. Chop each marshmallow into 4 pieces and add to the bowl with the cherries and 175ml condensed milk. Mix until the ingredients are well combined and you have a sticky mixture. If it's too dry, add a splash more condensed milk.
- 3. Sprinkle most of the coconut over a large piece of cling film (or foil). Tip the mixture onto the coconut and shape into a long sausage, about 30 x 5cm.
- 4. Sprinkle more coconut over the top of it and wrap the cling film tightly around, twisting the ends together.
- 5. Leave in the fridge to chill for 4-6 hrs, then cut into 15 slices and serve. Will keep in the fridge for up to 1 week wrapped in cling film.



In the space below design a packaging for your sweet treat as if it were to be sold in the supermarket. What material would the packaging be made of? In what shape? What would your product be called? Who would your target audience be? Label your packaging with all these details.





Mindfulness

Below are some activities which can be completed at home together to promote mindful practice. Developed by Educational Psychologist, Paula Williams to help children understand their bodies reaction to feelings and how to manage them.

It is recommended that these activities are completed in a calm environment away from distractions. This is a perfect opportunity to bond with your child whist building coping strategies for anxiety and stress.

The coach cards are for the adult and the child cards are for the children.

