Don's Maths Group

Easter Revision

10 4 10

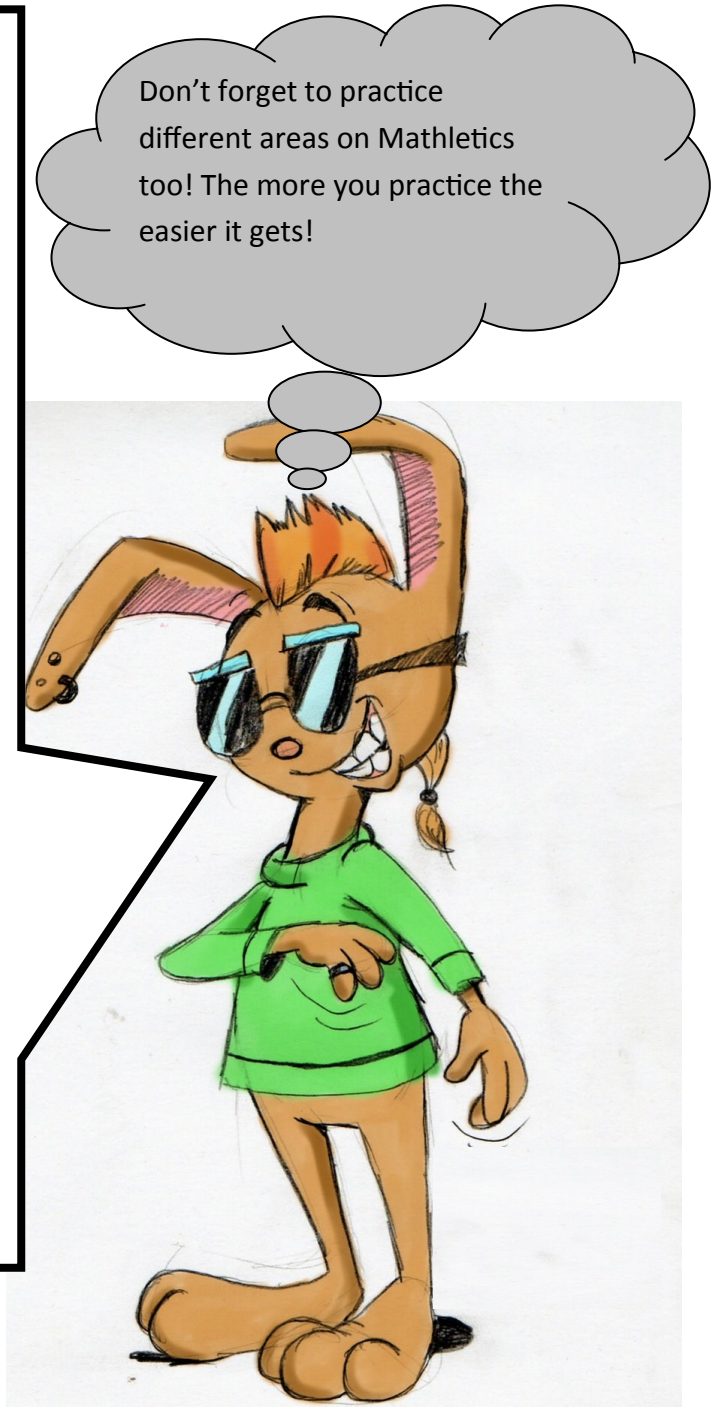
"10 Minutes a day for 10 days"

Very soon after your Easter holidays you will be sitting your KS2 SATs. You have been working very hard in your lessons to achieve your best. It would be a pity if you got out of practice over the Easter break!

Even doing a little will help you keep your maths 'sharp'. This homework pack is to help you do just that. It is called '10 4 10'—10 minutes a day for 10 days—you can have the weekends off!

Every day there is ONE double sided sheet to complete, with FIVE mental arithmetic questions and 3 to 4 SATs type questions that might need a bit more working to get the answers. Each day shouldn't take more than 10 minutes to do all the questions for that day

If you get really stuck with any questions—don't worry, just ask me when you get back, but you should be able to manage them all without me at this stage.



Name: _____

Easter Maths

Day 1

‘10 4 10’

Mental Questions

1. Calculate 10 minus three point six five.
2. How many metres are there in two point five kilometres?
3. Round 3.75 to the nearest whole number .
4. Eight cakes cost £2.40. How much do 20 cakes cost?
5. What is 3000 divided by 20?

1. Write in the missing number.

50 ÷ ☐ = 2.5

1 mark

2. Calculate **15.05 – 14.84**

☐

1 mark

3. Calculate **509 × 24**

Show your **working**. You may get a mark.

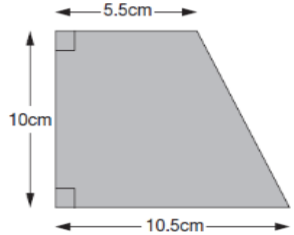
2 marks

4. Circle the **two** numbers which add up to **1**.

0.1 **0.65** **0.99** **0.45** **0.35**

1 mark

5. Here is a trapezium with a height of 10 centimetres.



Not actual size

The parallel sides are 5.5cm long and 10.5cm long.

Find the **area** of the trapezium.

Show your method

cm^2

2 marks

2marks

Easter Maths

Day 2

‘10 4 10’

Mental Questions

1. What is three fifths of 65?

2. What temperature is 15 degrees lower than 7°C.

3. What is one point six multiplied by 4?

4. A rectangle measures 11cm by 30cm. What is its area?

5. Put a ring around the decimal that is equivalent to two fifths

   0.5 0.3 0.25 0.4 0.52

1. The rule for this sequence of numbers is **'add 3 each time'.**

1 4 7 10 13 16 ...

The sequence continues in the same way.

Mary says,

'No matter how far you go there will never be a multiple of 3 in the sequence' .

Is she correct?

Circle Yes or No.

Yes / No

Explain how you know.

_____

_____

_____

1 mark

2. ***n*** stands for a number.

Complete this table of values.

n	***5 n – 2***
20	
	38

2mark

3. Look at this expression.

$10y + 2$

When $y = 0.4$, the value of $10y + 2$ is an **even** number because $10 \times 0.4 + 2 = 6$

Write a value for y so that $10y + 2$ is a **prime** number.

$y =$

1 mark

Now write a value for y so that $10y + 2$ is a **square** number.

$y =$

1 mark

Easter Maths

Day 3

‘10 4 10’

Mental Questions

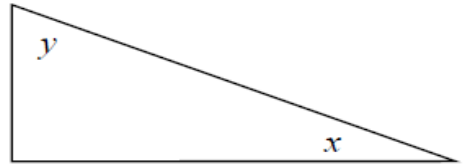
1. What is four point five divided by one hundred?

2. How many grams are there in fifteen kilograms?

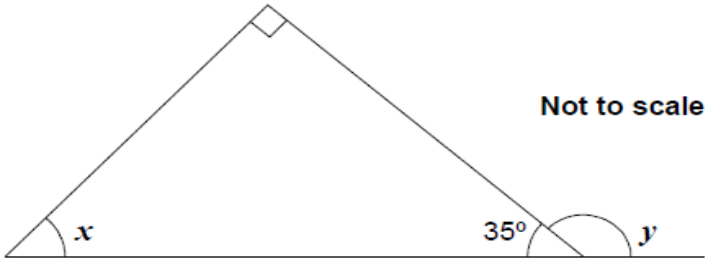
3. What is twenty-three multiplied by two hundred?

4. When h has the value seventeen, calculate the value of h subtract 2?

5. Look at the triangle. Angle *y* is 65°. Calculate the size of angle *x*?



1. Look at this diagram.



Not to scale

Calculate the size of angle x and angle y.

Do **not** use a protractor (angle measurer).

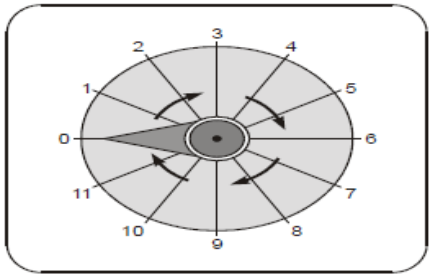
$X =$ ☐ °

1mark

$Y =$ ☐ °

1 mark

2. Here is a dial.



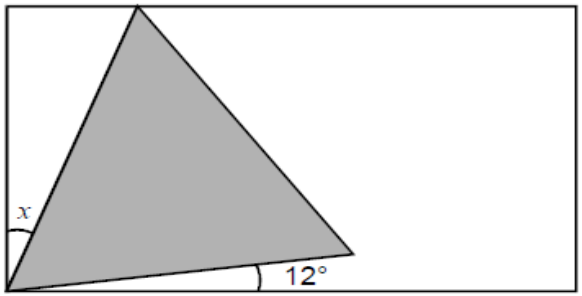
☐

The pointer on this dial turns in a **clockwise** direction.
The pointer is at **0**.

Which **number** does it point to after a turn of **270°**?

1 mark

2. Here is an **equilateral triangle** inside a **rectangle**.



Not to scale

Calculate the value of angle x.

Do **not** use a protractor (angle measurer).

Show your **method.** You may get a mark.

☐ °

2 marks

Easter Maths

Day 4

‘10 4 10’

Mental Questions

1. How many faces has a hexagonal pyramid?

2. How many millimetres are there in five and a half litres?

3. What is two percent of four hundred?

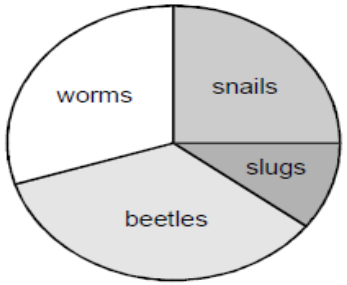
4. Calculate the difference between three hundred and thirty and eight hundred and twenty.

5. When rolling a fair dice numbered 1 to 6. What is the probability of getting an even number?

1. Tony and Gemma looked for snails, worms, slugs and beetles in their gardens.

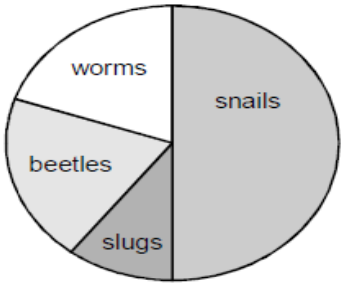
They each made a pie chart of what they found.

Tony's pie chart



Total 80

Gemma's pie chart



Total 36

Estimate the number of **worms** that **Tony** found.

1 mark

Who found more **snails**?

Circle Tony or Gemma.

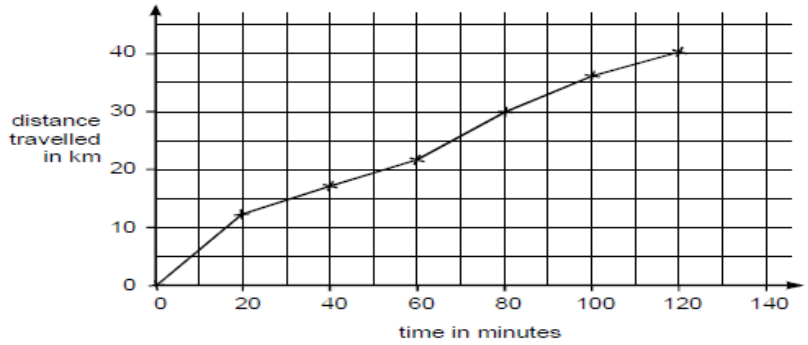
Tony / Gemma

Explain how you know.

1 mark

3. Carol went on a **40-kilometre** cycle ride.

This is a graph of how far she had gone at different times.



How many minutes did Carol take to travel the **last 10 kilometres** of the ride?

minutes

1 mark

Use the graph to estimate the distance travelled in the **first 20 minutes** of the ride.

km

1 mark

Carol says,

'I travelled further in the first hour than in the second hour'

Explain how the graph shows this.

1 mark

Easter Maths

Day 5

‘10 4 10’

Mental Questions

1. What is nought point seven divided by ten?

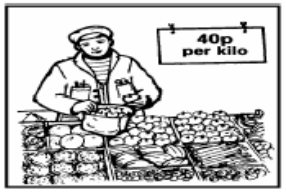
2. Three times a number is two hundred and one what is the number?

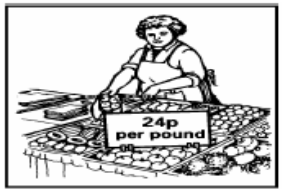
3. What is ¾ of 600?

4. A cake costs 35p. How many cakes can be bought for four pounds?

5. A regular hexagon has a perimeter of 42cm. What is the length of one side?

1.





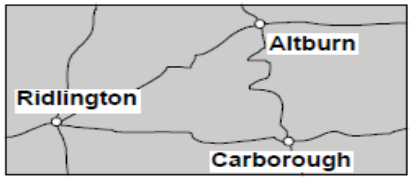
Mr Green sells apples at 40p per **kilogram.**

Mrs Ball sells apples at 24p per **pound.**

Work out who sells the cheaper apples.
Show how you worked it out.

1 mark

2. This map has a scale of **1 centimetre to 6 kilometres.**



The road from Ridlington to Carborough measured **on the map** is **6.6cm** long.

What is the length of the road in **kilometres?**

km

2 marks

3. Cheddar cheese costs £7.50 for 1kg.

Marie buys 200 grams of cheddar cheese.

How much does she pay?

£

1 mark

Cream cheese costs £3.60 for 1kg.

Robbie buys a pot of cream cheese for 90p.

How many grams of cream cheese does he buy?

Show your **method.** You may get a mark.

grams

2 marks

Easter Maths

Day 6

‘10 4 10’

Mental Questions

1. Ring the numbers which are square numbers.
   27 9 38 1 16 54

2. Add four to minus five. ☐

3. Centimetres are a measure of length. What are square centimetres a measure of? ☐

4. Twenty-five percent of a number is 8. What is the number? ☐

5. Multiply 5.6 by 2 ☐

1. Calculate **31.6 × 7**

1 mark

2. Circle the number **closest** in value to **0.1**

0.01 **0.05** **0.11** **0.2** **0.9**

1 mark

3. Calculate **8.6 – 3.75**

1 mark

4. y stands for a number.

$$y \times y \times y = 5$$

The most accurate value for y to **one decimal place** is 1.7 because

$$1.7 \times 1.7 \times 1.7 = 4.913$$

k stands for a number.

$$k \times k \times k = 10$$

Find the most accurate value for k correct to **one decimal place**.

Show your method

$k =$

2 marks

5. Paulo makes a sequence of numbers.

He chooses a starting number and then subtracts equal amounts each time.

The **third number** in his sequence is **45**

The **tenth number** is **–32**

		45							**–32**

What is the **first** number in the sequence?

Show your **working**. You may get a mark

2 marks

6. Write in the missing numbers.

$\square \div 21.7 = 37.5$

1 mark

$100 - (22.75 + 19.08) = \square$

1 mark

Easter Maths

Day 7

‘10 4 10’

Mental Questions

1. Write a multiple of three that is bigger than 100.

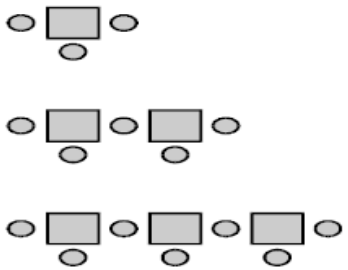
2. An event is certain to happen. Which number represents its probability?

3. What is 5 subtract 8?

4. I am facing east, then I turn through one hundred and eighty degrees. What direction am I facing now?

5. What is three-fifths of £40

1. Here is a sequence of patterns made from squares and circles.



number of squares	number of circles
1	3
2	5
3	7

The sequence continues in the same way.

Calculate how many **squares** there will be in the pattern which has **25 circles**.

Show your **working**. You may get a mark.

2 marks

2. Write in the missing digit.

$\square 92 \div 14 = 28$

3. Write in the missing digits.

$323 \times \square 7 = 1518\square$

1 mark

4. Sima thinks of a number.

She **divides** it by **12**. Her answer is **26**.

What is the number Sima thinks of?

1 mark

Easter Maths

Day 8

‘10 4 10’

Mental Questions

1. I am thinking of a 2-digit number that is a multiple of 8. The digits add up to six. What is the number?

2. What is 10% of £3.30

3. What is 4/5 of 65

4. What is the square root of 121?

5. It takes one and a half minutes to swim a length. How many length can I swim in 12minutes?

1. Julie says,

'I added three odd numbers and my answer was 50'

Explain why Julie cannot be correct.

1 mark

2. A sequence of numbers starts at 11 and follows the rule

'double the last number and then subtract 3'

11 19 35 67 131 ...

The sequence continues.

The number 4099 is in the sequence.

Calculate the number which comes immediately **before 4099** in the sequence.

2 marks

3. A sequence starts at **500** and **80** is **subtracted** each time.

500 420 340 ...

The sequence continues in the same way.

Write the **first two numbers** in the sequence which are **less than zero**.

2 marks

4. Carol has a rule for a sequence of numbers.

Her rule is

"The next number is the sum of the two previous numbers."

Use Carol's rule to write in the three missing numbers.

☐, ☐, ☐, 0, 1, 1, 2, 3, 5, 8, ...

1 mark

Easter Maths

Day 9

‘10 4 10’

Mental Questions

1. Ring the fractions that are equivalent to 3/4.

   3/6 6/8 1/4 6/12 15/20

2. What percentage of £20 is £5.

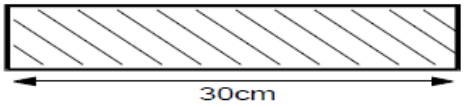
3. What is 13 squared?

4. How many 0.5 are there in 10.

5. You travel 8km. Circle the amount of miles that is equivalent to this distance.

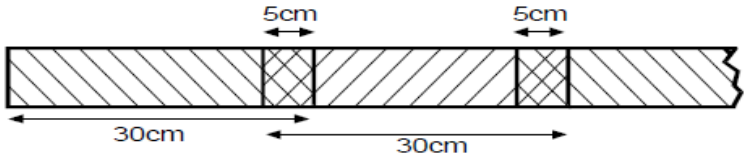
   1 6 8 5 16

1. Strips of paper are each **30 centimetres** long.



Steve joins strips of paper together to make a **streamer.**

The strips overlap each other by **5cm.**



How long is a streamer made from **only 2 strips**?

cm

1 mark

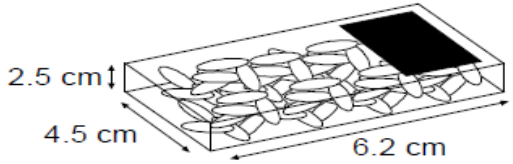
Sunita makes a streamer that is **280cm** long.

How many **strips** does she use?

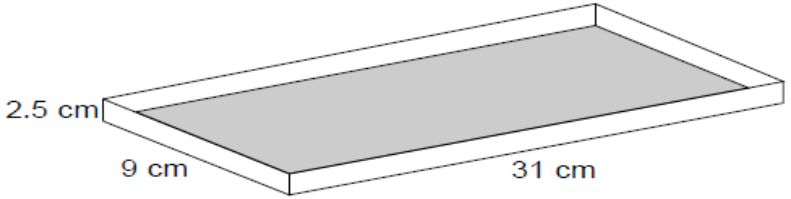
Show your **working.** You may get a mark.

2marks

2. Boxes measure 2.5cm by 4.5cm by 6.2cm.



The shopkeeper puts them in a tray.



Work out the **largest** number of boxes which can lie flat in the tray.

2 marks

Easter Maths

Day 10

‘10 4 10’

Mental Questions

1. Increase £2 by fifty percent.

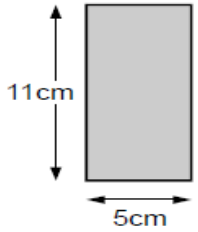
2. Look at the polygon. What is its name?

3. There are 14 girls and thirteen boys in a class. What is the prob ability that a pupil chosen at random will be a girl?

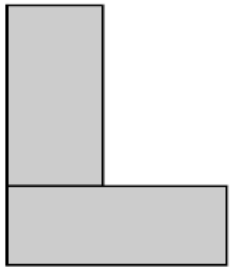
4. What is the remainder when you divide 300 by 29?

5. Write 15/35 in its simplest form

1. Liam has two rectangular tiles like this.



He makes this L shape.

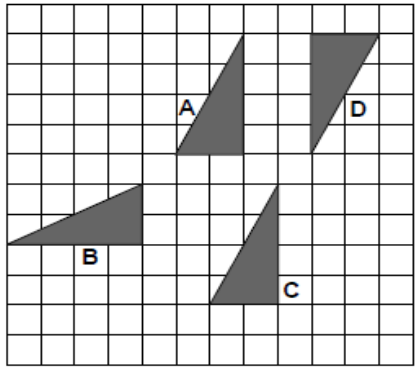


What is the **perimeter** of Liam's L shape?

cm

1 mark

2.



Write the correct **letter** in this sentence.

Shape ..... is a **reflection** of shape A

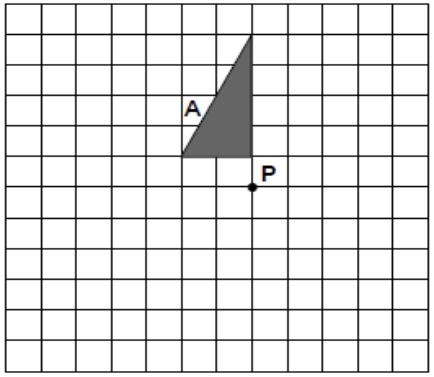
1 mark

Shape A is **rotated 180°** about the **point P.**

Draw **shape A** in its **new** position on the diagram below.

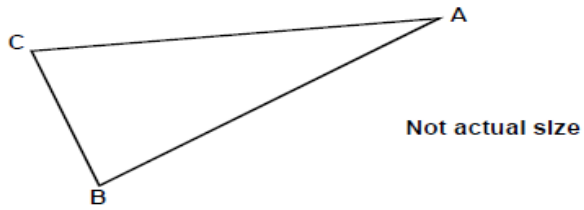
You may use tracing paper.

You may use an angle measurer.



2marks

3. Triangle **ABC** is isosceles and has a perimeter of 20 centimetres. Sides **AB** and **AC** are each twice as long as **BC**.



Not actual size

Calculate the length of the side **BC**. Do not use a ruler.

Show your **working.** You may get a mark.

cm

2marks

Working out pages—use these pages if you need more space

Working out pages—use these pages if you need more space

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