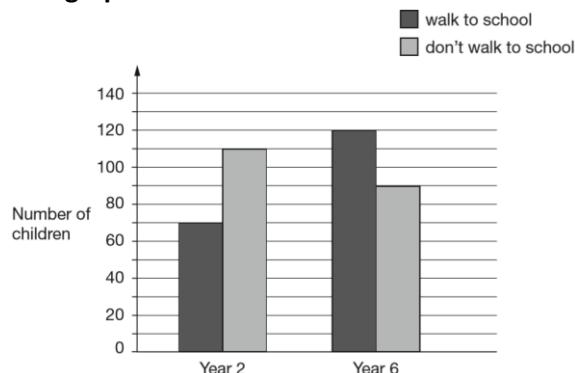




2017 Paper 2 Question 1

William asks the children in Year 2 and Year 6 if they walk to school.

This graph shows the results.



Altogether, how many children don't walk to school?

How many more Year 6 children than Year 2 children walk to school?



2017 Paper 2 Question 2

Circle the number that is 10 times greater than nine hundred and seven.

9,700 907 9,007 970 9,070



2017 Paper 2 Question 3

Write the missing numbers to make this multiplication grid correct.

\times	<input type="text"/>	<input type="text"/>
9	63	54
<input type="text"/>	56	48



2017 Paper 2 Question 4

This table shows the heights of three mountains.

Mountain	Height in metres
Mount Everest	8,848
Mount Kilimanjaro	5,895
Ben Nevis	1,344

How much higher is Mount Everest than the combined height of the other two mountains?



2017 Paper 3 Question 5

Complete this table with the missing numbers.

Number	1,000 more
3,500	4,500
85	<input type="text"/>
<input type="text"/>	9,099
<input type="text"/>	15,250



2017 Paper 2 Question 6

Write these numbers in order of size, starting with the smallest.

1.9 0.96 1.253 0.328

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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smallest



2017 Paper 2 Question 7

Write the missing numbers.

60 months = years

72 hours = days

84 days = weeks



2017 Paper 2 Question 8

At the start of June, there were 1,793 toy cars in the shop. During June,

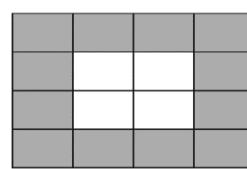
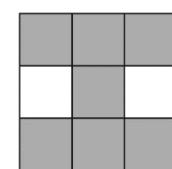
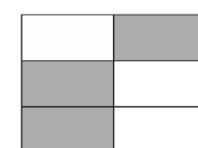
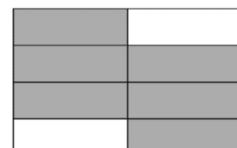
- 8,728 more toy cars were delivered
- 9,473 toy cars were sold.

How many toy cars were left in the shop at the end of June?



2017 Paper 2 Question 9

Tick two shapes that have $\frac{3}{4}$ shaded.



2017 Paper 2 Question 10

Round 84,516

to the nearest 10:

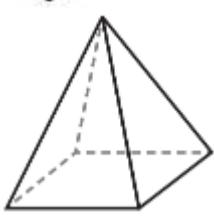
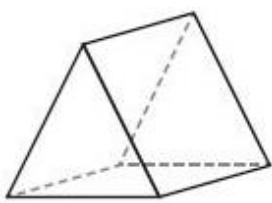
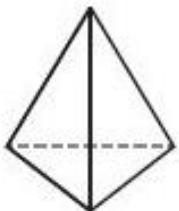
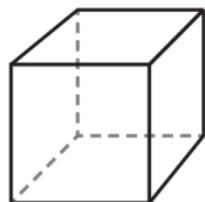
to the nearest 100:

to the nearest 1,000:



2017 Paper 2 Question 12

Here are diagrams of some 3-D shapes. Tick each shape that has the same number of faces as vertices.



2017 Paper 2 Question 14

Amina planted some seeds.

For every 3 seeds Amina planted, only 2 seeds grew. Altogether, 12 seeds grew.

How many seeds did Amina plant?

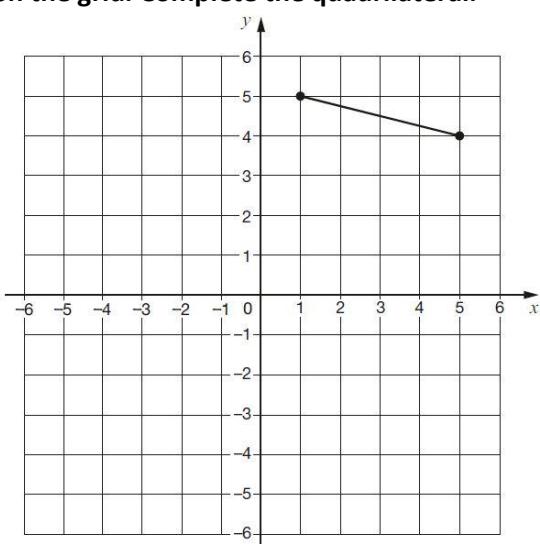


2017 Paper 2 Question 17

The vertices of a quadrilateral have these coordinates:

(1, 5) (5, 4) (1, -3) (-3, 4)

One side of the quadrilateral has been drawn on the grid. Complete the quadrilateral.



2017 Paper 2 Question 20

Adam says, 0.25 is smaller than $\frac{2}{5}$

Explain why he is correct.

2017 Paper 2 Question 11

Here is a rule for the time it takes to cook a chicken.

Cooking time = 20 minutes plus an extra 40 minutes for each kilogram

How many minutes will it take to cook a 3 kg chicken?

What is the mass of a chicken that takes 100 minutes to cook?

2017 Paper 2 Question 13

Ally and Jack buy some stickers.

- 12 stickers: 99p each
- Pack of 12 stickers: £10.49

Ally buys a pack of 12 stickers for £10.49

Jack buys 12 single stickers for 99p each.

How much more does Jack pay than Ally?

2017 Paper 2 Question 15

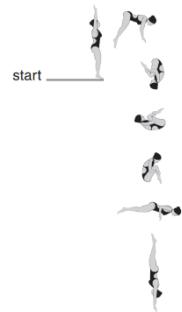


At the end of a film, the year is given in Roman numerals. Write the year MMVI in figures.



2017 Paper 2 Question 16

Layla completes one-and-a-half somersaults in a dive.



How many degrees does Layla turn through in her dive?

2017 Paper 2 Question 18

A cat sleeps for 12 hours each day. 50% of its life is spent asleep.

A koala sleeps for 18 hours each day.

_____ % of its life is spent asleep.



2017 Paper 2 Question 19

Amina posts three large letters.

The postage costs the same for each letter.

She pays with a £20 note.

Her change is £14.96

What is the cost of posting one letter?



2017 Paper 2 Question 21

On a map, 1cm represents 20 km.



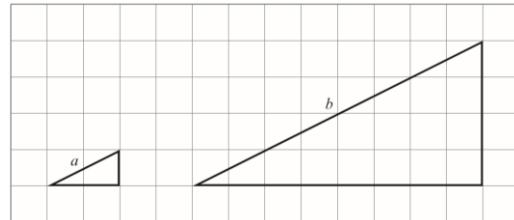
kilometres

The distance between two cities is 250 km. On the map, what is the distance between the two cities?



2017 Paper 2 Question 22

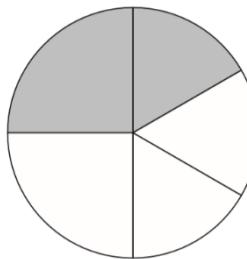
Here are two similar right-angled triangles.



Write the ratio of side a to side b.

$$a : b = \underline{\hspace{2cm}} : \underline{\hspace{2cm}}$$

2017 Paper 2 Question 23



In this circle, $\frac{1}{4}$ and $\frac{1}{6}$ are shaded. What fraction of the whole circle is not shaded?



2017 Paper 3 Question 1

Write the missing number to make this division correct.

$$75 \div \underline{\hspace{2cm}} = 7.5$$



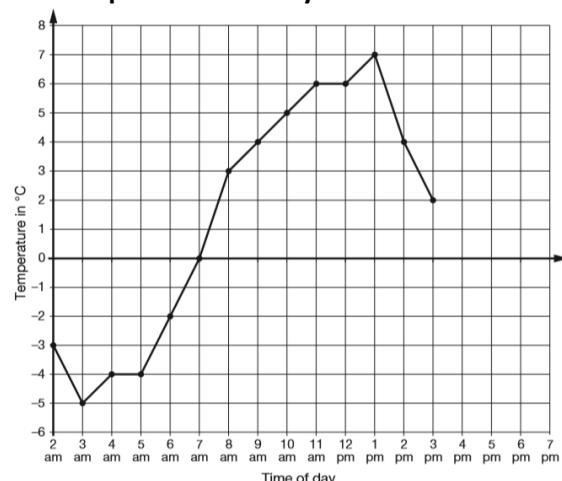
2017 Paper 3 Question 2

A group of friends earns £80 by washing cars. They share the money equally. They get £16 each. How many friends are in the group?



2017 Paper 3 Question 4

This graph shows the temperature in °C from 2 am to 3 pm on a cold day.



How many degrees warmer was it at 3 pm than at 3 am?

At 6 pm the temperature was 4 degrees lower than at 3 pm.

What was the temperature at 6 pm?



2017 Paper 3 Question 3



Chen uses these digit cards.

She makes a 2-digit number and a 1-digit number.

She multiplies them together.

Her answer is a multiple of 10

What could Chen's multiplication be?



2017 Paper 3 Question 5

The children at Farmfield School are collecting money for charity.

Their target is to collect £360

So far they have collected £57.73

How much more money do they need to reach their target?



2017 Paper 3 Question 6

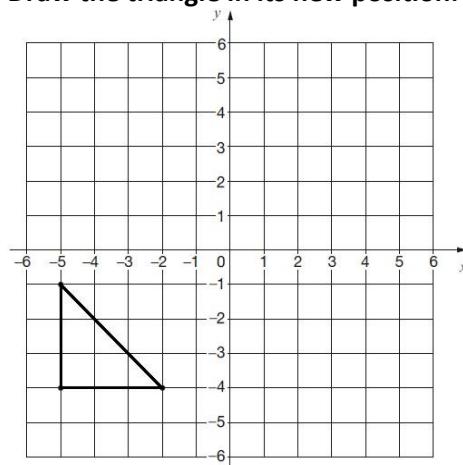
Leaves London	Arrives Paris
12:01	15:22
12:25	15:56
13:31	16:53
14:01	17:26
14:31	17:53
15:31	18:53
16:01	19:20

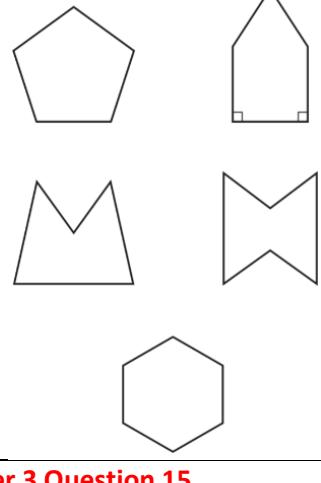
William wants to travel to Paris by train. He needs to arrive in Paris by 5:30 pm. Circle the latest time that William can leave London.



2017 Paper 3 Question 7

Here is a triangle drawn on a coordinate grid. The triangle is translated 7 right and 5 up. Draw the triangle in its new position.



<p>2017 Paper 3 Question 9 Here is the morning timetable for Chen's class this week. What is the total number of hours for English on this timetable?</p> <table border="1" data-bbox="214 258 770 507"> <thead> <tr> <th>Time</th><th>Mon</th><th>Tue</th><th>Wed</th><th>Thu</th><th>Fri</th></tr> </thead> <tbody> <tr> <td>9:00am–10:30am</td><td>Maths</td><td>English</td><td>Maths</td><td>English</td><td>Maths</td></tr> <tr> <td>10:30am–11:00am</td><td>Break</td><td>Break</td><td>Break</td><td>Break</td><td>Break</td></tr> <tr> <td>11:00am–12:00pm</td><td>English</td><td>Maths</td><td>Science</td><td>Maths</td><td>English</td></tr> </tbody> </table>	Time	Mon	Tue	Wed	Thu	Fri	9:00am–10:30am	Maths	English	Maths	English	Maths	10:30am–11:00am	Break	Break	Break	Break	Break	11:00am–12:00pm	English	Maths	Science	Maths	English	<p>2017 Paper 3 Question 8 Write three factors of 30 that are not factors of 15</p> <p>2017 Paper 3 Question 10 A bottle contains 568 millilitres of milk. Jack pours out half a litre. How much milk is left?</p>
Time	Mon	Tue	Wed	Thu	Fri																				
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10:30am–11:00am	Break	Break	Break	Break	Break																				
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<p>2017 Paper 3 Question 12</p>  <p>Adam buys 6 bags of white balloons. Chen buys 3 bags of red balloons. Adam says, 'I have four times as many balloons as Chen.' Explain why Adam is correct.</p>	<p>2017 Paper 3 Question 13 Circle the pentagon with exactly four acute angles.</p> 																								
<p>2017 Paper 3 Question 14 3 pineapples cost the same as 2 mangoes. One mango costs £1.35 How much does one pineapple cost?</p>	<p>2017 Paper 3 Question 15 Circle the letter below that has both parallel and perpendicular lines.</p> <p>A C E L Z</p>																								
<p>2017 Paper 3 Question 16 There are 2,400 leaflets in a box. William and Ally take 450 leaflets each. Adam and Chen share the rest of the leaflets equally. How many leaflets does Adam get?</p>	<p>2017 Paper 3 Question 17 In each box, circle the number that is greater.</p> <table border="1" data-bbox="813 1480 1341 1731"> <tbody> <tr> <td>$1\frac{1}{2}$</td> <td>1.2</td> <td>$1\frac{5}{100}$</td> <td>1.4</td> </tr> <tr> <td>$1\frac{1}{4}$</td> <td>1.3</td> <td>$1\frac{3}{5}$</td> <td>1.5</td> </tr> </tbody> </table>	$1\frac{1}{2}$	1.2	$1\frac{5}{100}$	1.4	$1\frac{1}{4}$	1.3	$1\frac{3}{5}$	1.5																
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$1\frac{1}{4}$	1.3	$1\frac{3}{5}$	1.5																						
<p>2017 Paper 3 Question 18 A square number and a prime number have a total of 22 What are the two numbers?</p> <p><input type="text"/> + <input type="text"/> = 22</p> <p>square number prime number</p>	<p>2017 Paper 3 Question 19 Dev thinks of a <u>whole</u> number. He multiplies it by 4 He rounds his answer to the nearest 10 The result is 50 Write <u>all</u> the possible numbers that Dev could have started with.</p>																								

**2017 Paper 3 Question 20**

A square tile measures 20 cm by 20 cm. A rectangular tile is 3 cm longer and 2 cm narrower than the square tile. What is the difference in area between the two tiles?

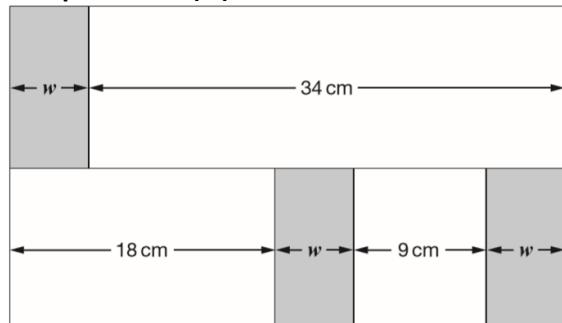
**2017 Paper 3 Question 21**

The numbers in this sequence increase by the same amount each time. Write the missing numbers.

<input type="text"/>	<input type="text"/> 1	<input type="text"/> $1\frac{5}{8}$	<input type="text"/> $2\frac{1}{4}$	<input type="text"/>
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**2017 Paper 3 Question 22**

In this diagram, the shaded rectangles are all of equal width (w).



Calculate the width (w) of one shaded rectangle.

**2017 Paper 3 Question 23**

Here is a pattern of number pairs.

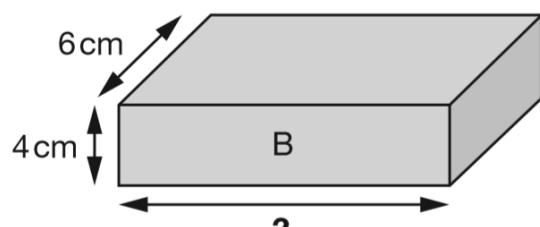
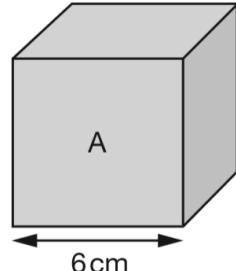
a	b
1	9
2	19
3	29
4	39

Complete the rule for the number pattern.

$$b = \boxed{} \times a - \boxed{}$$

**2017 Paper 3 Question 24**

Cube A and cuboid B have the same volume.



Calculate the missing length on cuboid B.

