2016 Paper 2 Question 3
Write the three missing digits to make this addition correct.

$$
\begin{array}{cccc}
 & 1 & 5 & \square \\
+ & 4 & \square & 4 \\
\hline
\square & & 1 & 5 \\
\end{array}
$$

2016 Paper 2 Question 2
Put these houses in order of price starting with the lowest price. One has been done for you.

A £135,300   B £119,125   C £130,500
D £131,500   E £91,500

____ __B__ ____ ____ ____
lowest

2016 Paper 2 Question 1
Ali puts these five numbers in their correct places on a number line.
  511 499 502 555 455
Write the number closest to 500

Write the number furthest from 500

2016 Paper 2 Question 4
This table shows the number of people living in various towns in England.

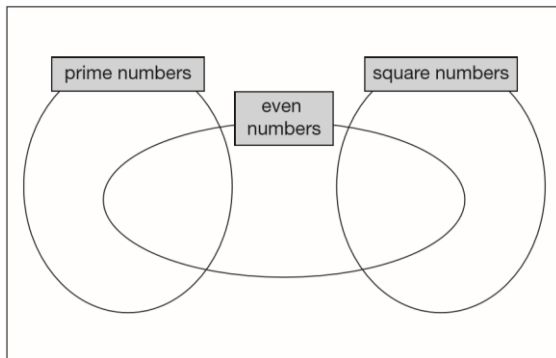| Town	Population
Bedford	82,448
Carlton	48,493
Dover	34,087
Formby	24,478
Telford	166,640

What is the total of the numbers of people living in Formby and in Telford?

What is the difference between the numbers of people living in Bedford and in Dover?

2016 Paper 2 Question 5
Write each number in its correct place on the diagram.
  16   17   18   19

prime numbers   square numbers
        even
        numbers

2016 Paper 2 Question 7
Write the two missing values to make these equivalent fractions correct.

$$\frac{\square}{3} = \frac{8}{12} = \frac{4}{\square}$$

2016 Paper 2 Question 8
Circle two numbers that add together to equal 0.25

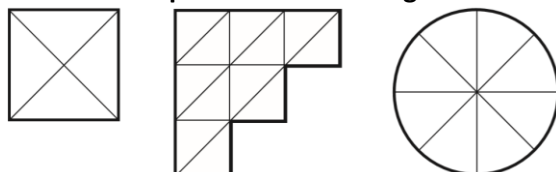 0.05   0.23   0.2   0.5

2016 Paper 2 Question 9
6 pencils cost £1.68
3 pencils and 1 rubber cost £1.09
What is the cost of 1 rubber?

2016 Paper 2 Question 10
Each diagram below is divided into equal sections. Shade three-quarters of each diagram.

2016 Paper 2 Question 11
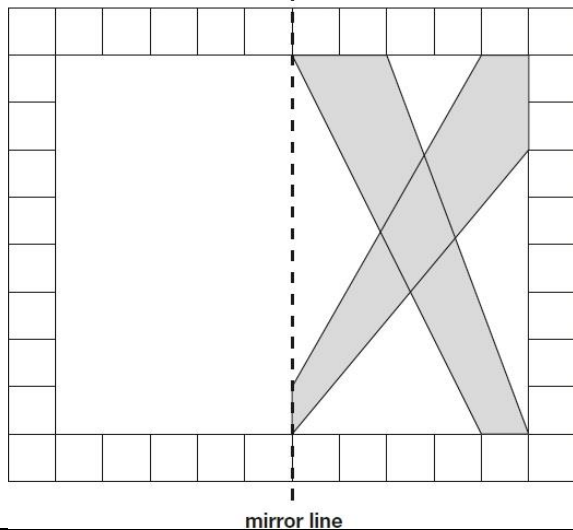A packet contains 1.5 kg of oats.
Every day Maria uses 50 g of oats to make porridge.
How many days does the packet of oats last?

1

2016 Paper 2 Question 6
This diagram shows a shaded shape inside a border of squares. Draw the reflection of the shape in the mirror line.
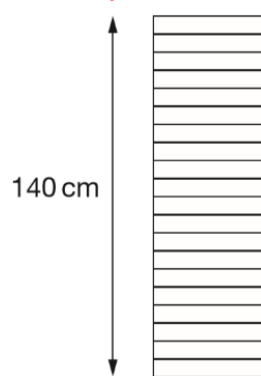

mirror line

2016 Paper 2 Question 12
n = 22
What is 2n + 9?

2q + 4 = 100
Work out the value of q.

2016 Paper 2 Question 13

140 cm

A stack of 20 identical boxes is 140 cm tall. Stefan takes three boxes off the top. How tall is the stack now?

2016 Paper 2 Question 14
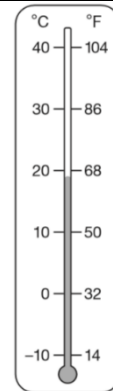Write all the common multiples of 3 and 8 that are less than 50

2016 Paper 2 Question 16
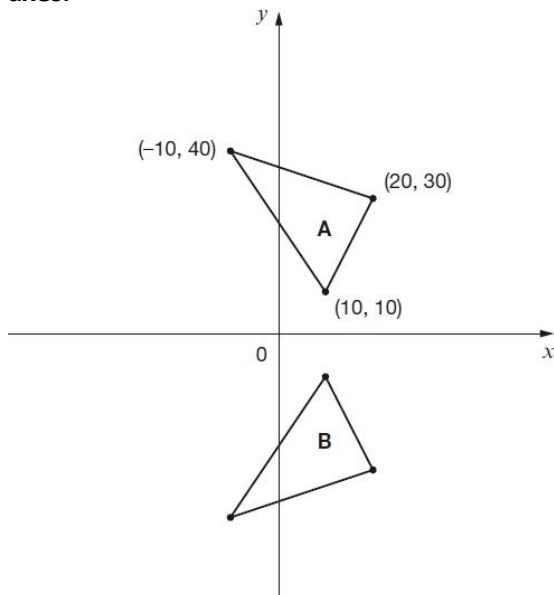Write the number that is five less than ten million.

Write the number that is one hundred thousand less than six million.

2016 Paper 2 Question 15
This thermometer shows temperatures in both °C and °F.
Work out what 25 °C is in °F.

2016 Paper 2 Question 20
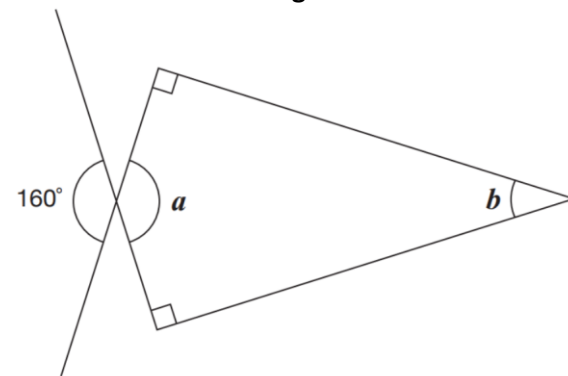Here are two triangles drawn on coordinate axes.

Triangle B is a reflection of triangle A in the *x*-axis.
Two of the new vertices of triangle B are (10, −10) and (20, −30).
What are the coordinates of the third vertex of triangle B?

2016 Paper 2 Question 17
Calculate the size of angles a and b.

2016 Paper 2 Question 18
Write the missing number.

$$70 \div \boxed{} = 3.5$$

2016 Paper 2 Question 19
Miss Mills is making jam to sell at the school fair.
- Strawberries cost £7.50 per kg.
- Sugar costs 79p per kg.
- 10 glass jars cost £6.90

She uses 12 kg of strawberries and 10 kg of sugar to make 20 jars full of jam.
Calculate the total cost to make 20 jars full of jam.

2

2016 Paper 3 Question 1

The numbers in this sequence increase by 14 each time. Write the missing numbers.

| | 82 | 96 | | 124 | 138 | |

2016 Paper 3 Question 2
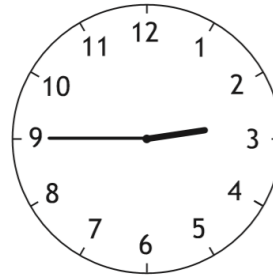
This table shows the temperature at 9am on three days in January.

1st January	8th January	15th January
+ 5°C	− 4°C	+ 1°C

What is the difference between the temperature on 1st January and the temperature on 8th January?

On 22nd January the temperature was 7 degrees lower than on 15th January.
What was the temperature on 22nd January?

2016 Paper 3 Question 3

A clock shows this time twice a day.

Tick the two digital clocks that show this time.

02:45   03:45   09:45

14:45   21:45

2016 Paper 3 Question 4

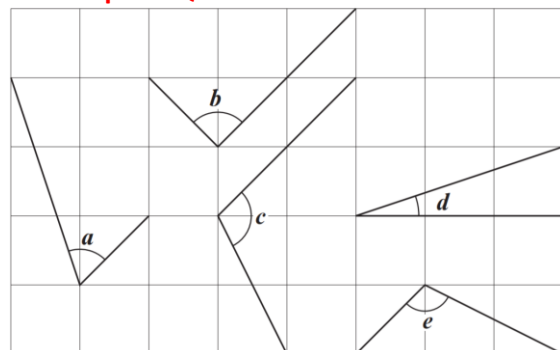Each shape stands for a number.
Work out the value of each shape.

←Total 100

Total 96

▲ = _____

⬤ = _____

2016 Paper 3 Question 5

Write these numbers in order, starting with the smallest.

0.78   0.607   5.6   0.098   4.003

smallest

2016 Paper 3 Question 6

Jacob cuts 4 metres of ribbon into three pieces.
The length of the first piece is 1.28 metres.
The length of the second piece is 1.65 metres.
Work out the length of the third piece.

2016 Paper 3 Question 7

Write the letters of the angles that are obtuse.

Write the letters of the angles that are acute.

2016 Paper 3 Question 8

Olivia buys three packets of nuts.
She pays with a £2 coin.
This is her change.

What is the cost of one packet of nuts?

2016 Paper 3 Question 11

A toy shop orders 11 boxes of marbles.
Each box contains 6 bags of marbles.
Each bag contains 45 marbles.
How many marbles does the shop order in total?

2016 Paper 3 Question 13

Lara chooses a number less than 20
She divides it by 2 and then adds 6
She then divides this result by 3
Her answer is 4.5
What was the number she started with?

2016 Paper 3 Question 14

Complete each sentence using a number from the list below.

120   240   600   1,440   3,600   6,000

There are _____ seconds in an hour.

There are _____ minutes in a day.

2016 Paper 3 Question 9

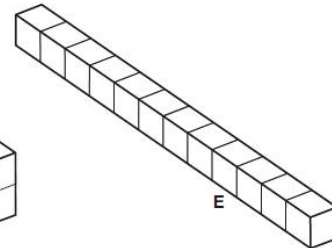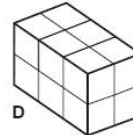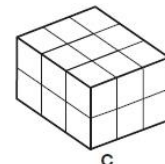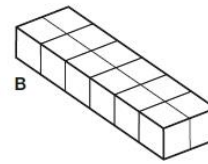Here is part of the bus timetable from Riverdale to Mott Haven.

Riverdale	10:02	10:12	10:31	10:48
Kingsbridge	10:11	10:21	10:38	10:55
Fordham	10:28	10:38	10:54	11:11
Tremont	10:36	10:44	11:00	11:17
Mott Haven	10:53	11:01	11:17	11:34

How many minutes does it take the 10:31 bus from Riverdale to reach Mott Haven?

Mr Evans is at Fordham at 10:30
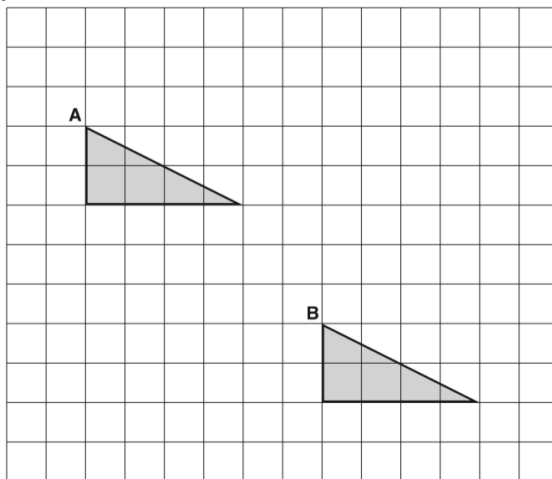What is the earliest time he can reach Tremont on the bus?

2016 Paper 3 Question 10

Emma makes a cuboid using 12 cubes. Write the letter of the cuboid that has a different volume from Emma's cuboid.

2016 Paper 3 Question 12

A triangle is translated from position A to position B.

Complete the sentence.

The triangle has moved ☐ squares to the right

and ☐ squares down.

2016 Paper 3 Question 15

Complete this table by rounding the numbers to the nearest hundred.

	Rounded to the **nearest hundred**
20,906	
2,090.6	
209.06	

2016 Paper 3 Question 16

6 small bricks have the same mass as 5 large bricks.
The mass of one small brick is 2.5 kg.
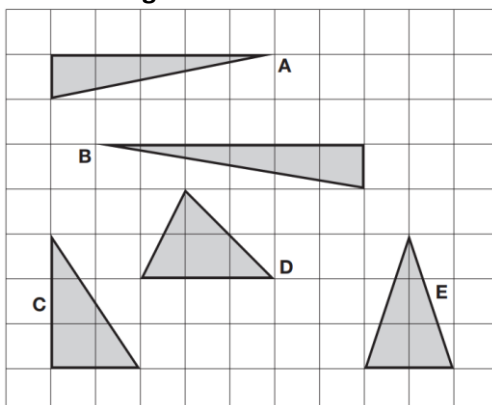What is the mass of one large brick?

2016 Paper 3 Question 19

Circle two numbers that multiply together to equal 1 million.

200   2,000   5,000   50,000

2016 Paper 3 Question 17

Here are five triangles on a square grid.
Four of the triangles have the same area.
Which triangle has a different area?

2016 Paper 3 Question 20

Lara had some money.
She spent £1.25 on a drink.
She spent £1.60 on a sandwich.
She has three-quarters of her money left.
How much money did Lara have to start with?
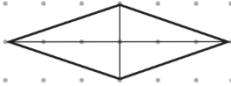
2016 Paper 3 Question 21

5,542 ÷ 17 = 326
Explain how you can use this fact to find the answer to 18 × 326

4

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The diagonals of this quadrilateral cross at right angles.

Tick all the quadrilaterals that have diagonals which cross at right angles.