

SATs in Minutes

Video organiser for 20
SATs questions and
variant questions

Reasoning Paper 2, 2016

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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

1 mark

Write the number **furthest** from 500

1 mark



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2

A




£135,300

B




£119,125

C




£130,500

D



£131,500

E



£91,500

Put these houses in order of price starting with the **lowest price**.

One has been done for you.

_____ **B** _____

lowest _____

1 mark



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3

Write the three missing digits to make this **addition** correct.

$$\begin{array}{r}
 15\ \square \\
 + 4\ \square\ 4 \\
 \hline
 \square\ 1\ 5
 \end{array}$$

2 marks



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the link to view
your video.

[bit.ly/ Q3_P2_2016_SiM](https://bit.ly/Q3_P2_2016_SiM)

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?

1 mark

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

1 mark



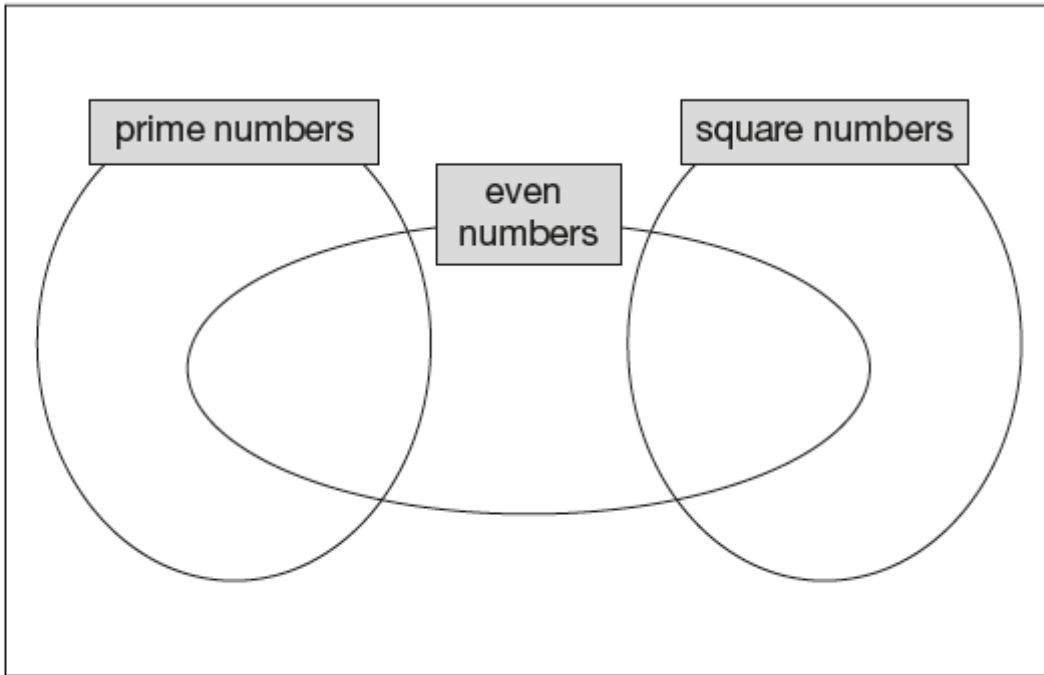
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bit.ly/Q4_P2_2016_SiM

5

Write each number in its correct place on the diagram.

16 17 18 19



2 marks



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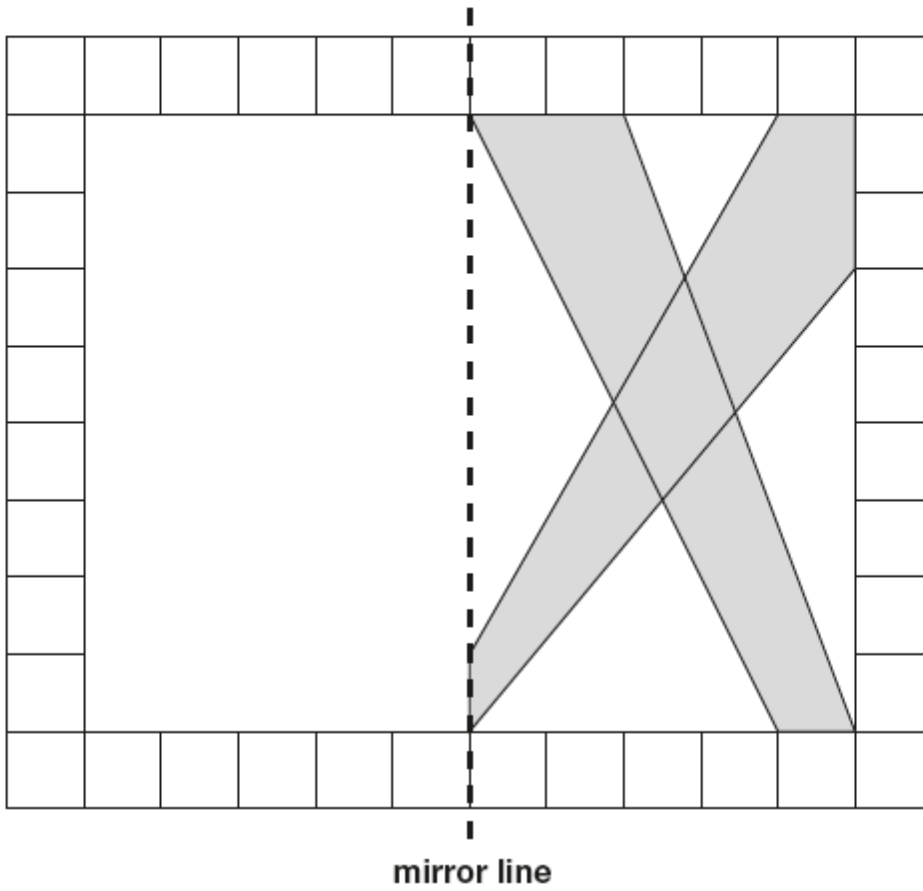
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6

This diagram shows a shaded shape inside a border of squares.

Draw the reflection of the shape in the mirror line.

Use a ruler.



1 mark



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bit.ly/Q6_P2_2016_SiM

7

Write the two missing values to make these equivalent fractions correct.

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

1 mark

1 mark



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bit.ly/Q7_P2_2016_SiM

8

Circle two numbers that add together to equal 0.25

0.05

0.23

0.2

0.5

1 mark



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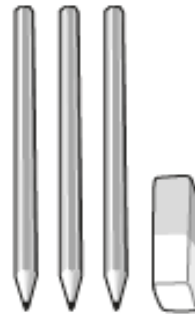
bit.ly/Q8_P2_2016_SiM

9

6 pencils cost **£1.68**



3 pencils and 1 rubber cost **£1.09**



What is the cost of 1 rubber?

Show your method

2 marks

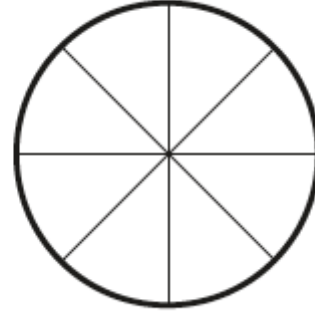
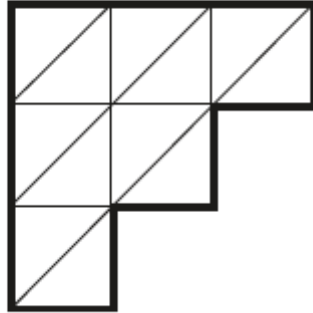
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bit.ly/Q9_P2_2016_SiM

10

Each diagram below is divided into equal sections.

Shade three-quarters of each diagram.



2 marks



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bit.ly/Q10_P2_2016_SiM

12

$$n = 22$$

What is $2n + 9$?

1 mark

$$2q + 4 = 100$$

Work out the value of q .

$q =$

1 mark

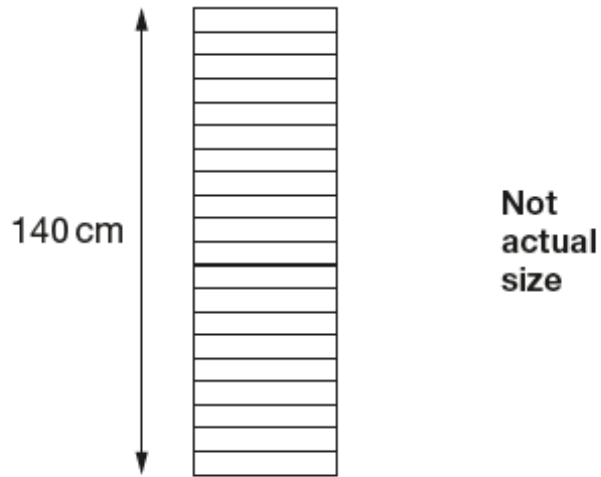


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[bit.ly/ Q12 P2 2016 SiM](https://bit.ly/Q12_P2_2016_SiM)

13

A stack of 20 identical boxes is 140 cm tall.



Stefan takes **three** boxes off the top.

How tall is the stack now?

Show your method

The grid is 20 units wide and 14 units high. A small rectangle is drawn in the bottom right corner, spanning 3 units wide and 1 unit high. The label "cm" is placed inside this rectangle.

2 marks

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14

Write all the common multiples of 3 and 8 that are less than 50

1 mark

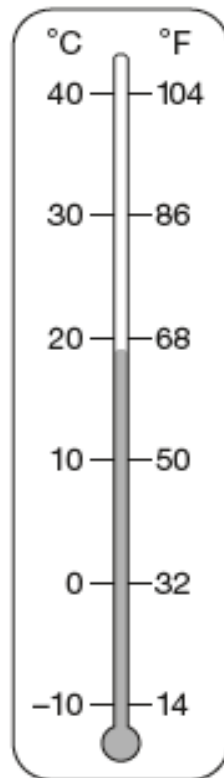


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15

This thermometer shows temperatures in both °C and °F.



Work out what 25°C is in °F.

Show your method

°F

2 marks

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16

Write the number that is five less than **ten million**.

1 mark

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

1 mark

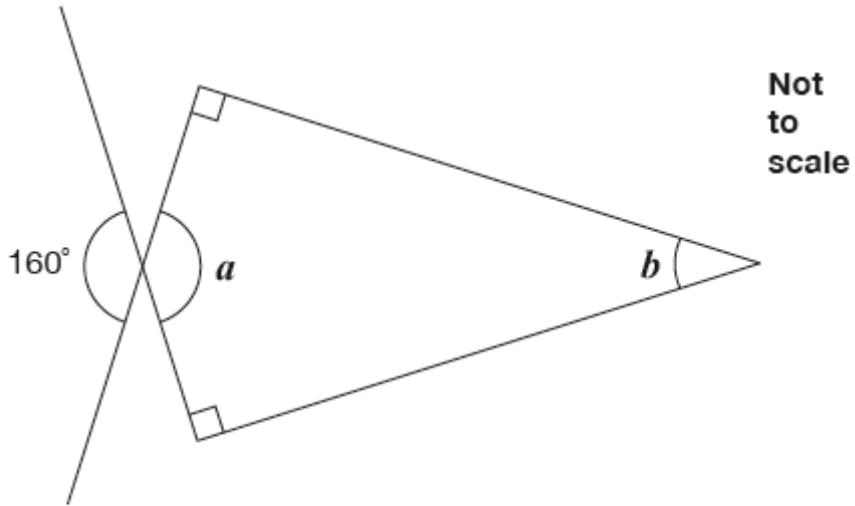


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17

Calculate the size of angles a and b in this diagram.



$a =$ _____
1 mark

$b =$ _____
1 mark



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18

Write the missing number.

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

1 mark



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bit.ly/Q18_P2_2016_SiM

19

Miss Mills is making jam to sell at the school fair.

Strawberries cost £7.50 per kg.

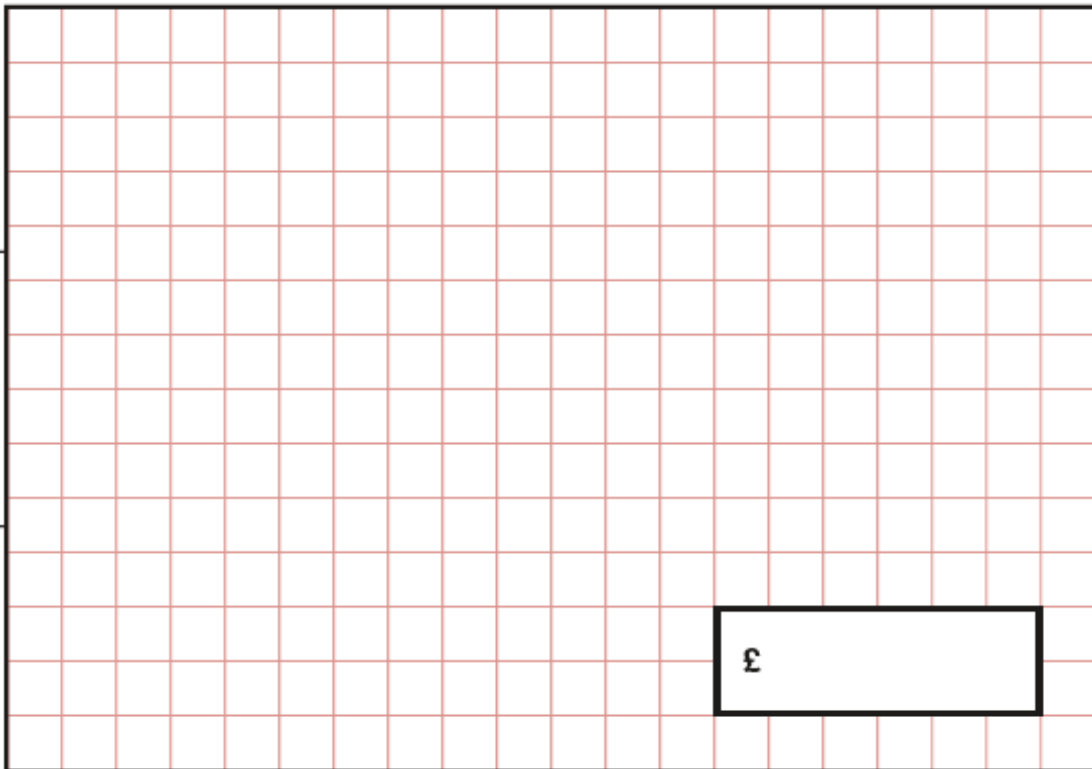
Sugar costs 79p per kg.

10 glass jars cost £6.90

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

Calculate the total cost to make 20 jars full of jam.

Show
your
method



£

3 marks

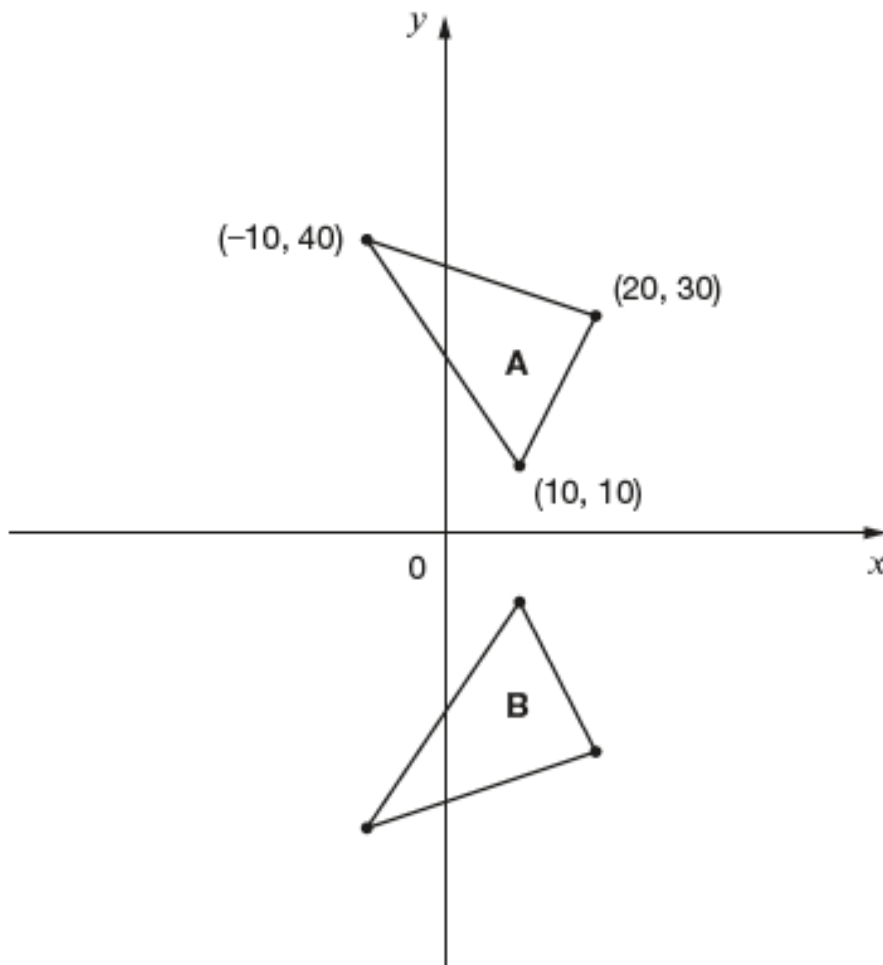


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20

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?

(,)

1 mark



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