

Summer Assessment

Year 7

Mathematics

Foundation: No calculator allowed

Time allowed: 45 minutes

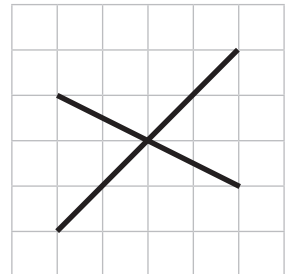
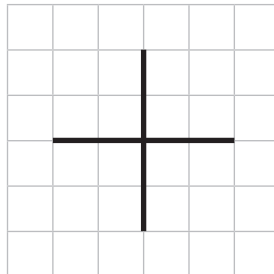
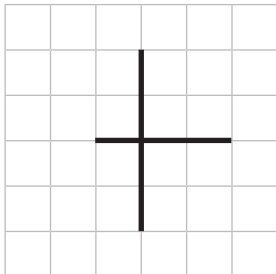
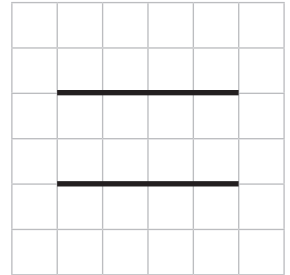
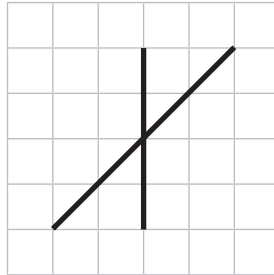
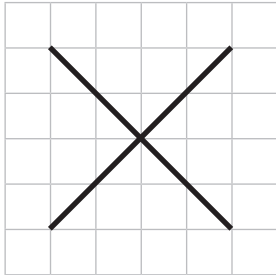
First name						
Middle name						
Last name						
Date of birth	Day		Month		Year	
Teacher						

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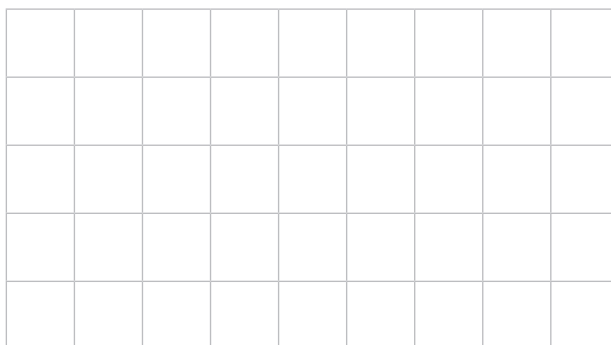
1

Tick **all** the pairs of perpendicular lines.



2 marks

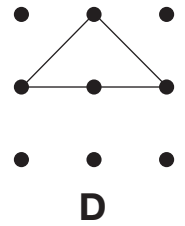
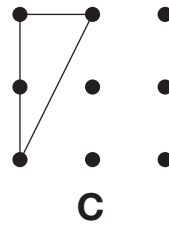
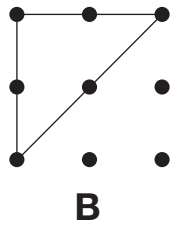
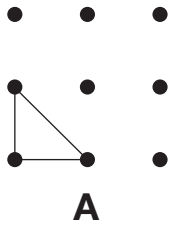
Draw a pair of parallel lines on the grid below.



1 mark

2

The diagrams show the four different right-angled triangles that can be drawn on a nine dot grid.



What fraction of the area of the grid does triangle A take up?

1 mark

What percentage of the area of the grid does triangle C take up?

1 mark

3

Use the information that,

$$26 \times 32 = 832$$

to work out

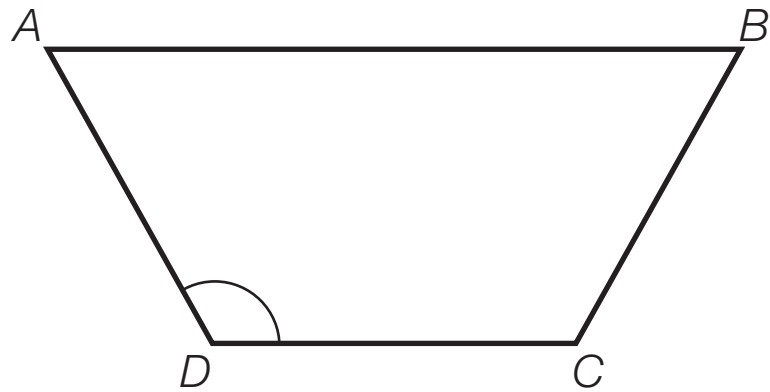
$$26 \times 320$$

$$2.6 \times 32$$

2 marks

4

In the diagram, $ABCD$ is a trapezium.



Use a protractor to measure the marked angle.

1 mark

Measure the length of the diagonal from A to C .

1 mark

5

Circle **all** the prime numbers in the list.

1

2

3

4

5

2 marks

Is 30 a square number?

Yes

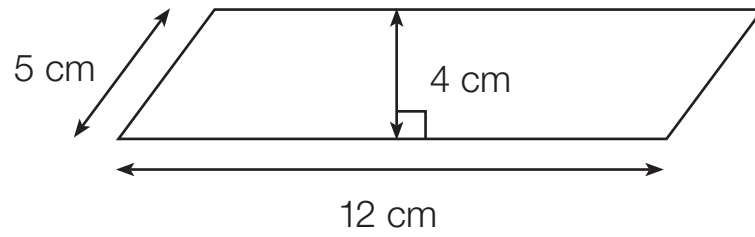
No

Explain how you know.

1 mark

6

Here is a parallelogram.



Find the area of the parallelogram.

cm^2

1 mark

Find the perimeter of the parallelogram.

cm

1 mark

7

Megan rolls a fair 8-sided die, labelled 1 to 8



What is the probability that she will **not** roll an 8?

1 mark

8

Work out

$$346 + 99 =$$

$$346 - 99 =$$

2 marks

9

A pack of 150 counters costs £8.50

How much will it cost to buy 600 counters?

2 marks

The population of Old Town is 7680

The population of New Town is 18 345

Find the difference between the populations of the two towns.

1 mark

Round your answer to one significant figure.

1 mark

10

List the members of these sets.

E = Even numbers greater than zero and less than 10

$$E = \{ \quad, \quad, \quad, \quad \}$$

1 mark

F = Factors of 12

$$F = \{ \quad, \quad, \quad, \quad, \quad, \quad \}$$

1 mark**11**

Here is the line AB.

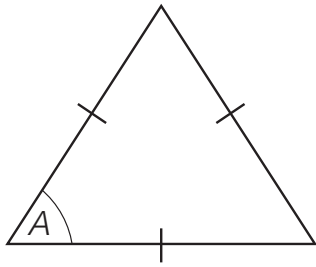
A  BUse a protractor to draw an angle of 72° at point B.

1 mark

12

Here are some 2D shapes.

Work out the value of angle A .



$A =$ $^{\circ}$

1 mark

Work out the value of angle B .

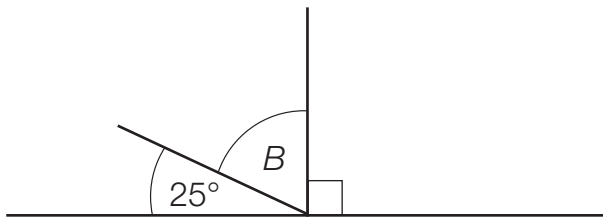


Diagram not drawn accurately

$B =$ $^{\circ}$

2 marks

Work out the value of angle C .

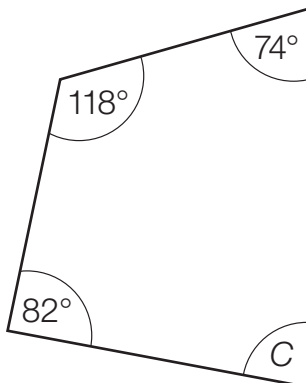


Diagram not drawn accurately

$C =$ $^{\circ}$

2 marks

13

Sohaib says,



When you multiply an odd number by an even number, the answer is always an odd number.

Give an example to show that Sohaib is wrong.

1 mark

14

Work out the next number in this sequence.

3,100**310****31**

1 mark

Find the value of $a + b$ when $a = 7.3$ and $b = 5.8$

1 mark

Calculate

$$\frac{1}{2} + \frac{3}{8}$$

2 marks

15

Solve the equations.

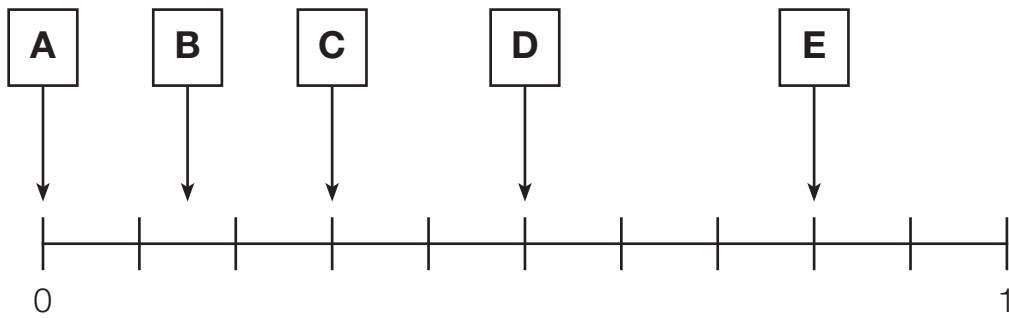
$$3x = 42$$

1 mark

$$2y + 10 = 4$$

2 marks

Here is a probability scale.



A bag contains 1 purple sweet, 6 green sweets, 3 yellow sweets and 10 red sweets.



Match the probabilities with the correct letter on the scale.

$$P(\text{Red}) = \boxed{}$$

$$P(\text{Red or green}) = \boxed{}$$

$$P(\text{Yellow}) = \boxed{}$$

$$P(\text{Orange}) = \boxed{}$$

3 marks

END OF TEST

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