

- 1 (a) Write 0.8 as a fraction.

..... [1]

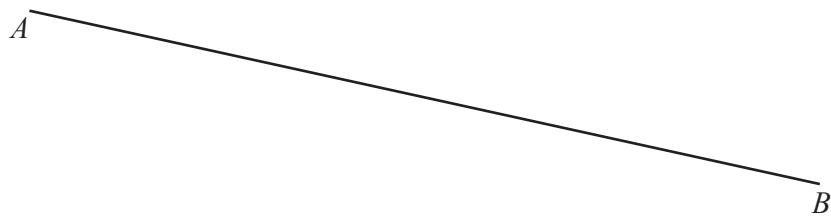
- (b) Write 28% as a decimal.

..... [1]

- (c) Write 4876 correct to the nearest hundred.

..... [1]

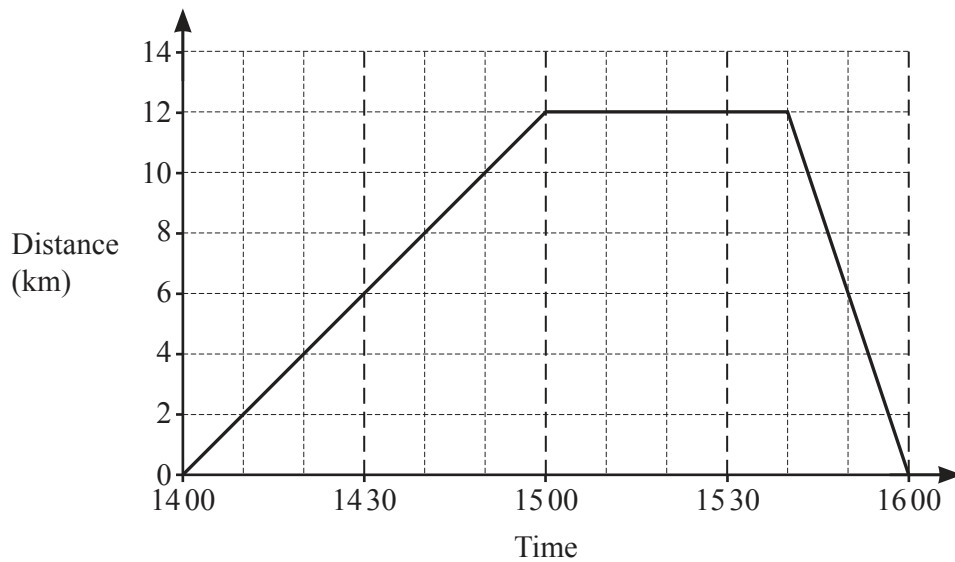
2



Measure the length of line AB in millimetres.

..... mm [1]

- 3 The travel graph shows the journey of a bus.



- (a) Find the distance the bus travels in the first 50 minutes.

..... km [1]

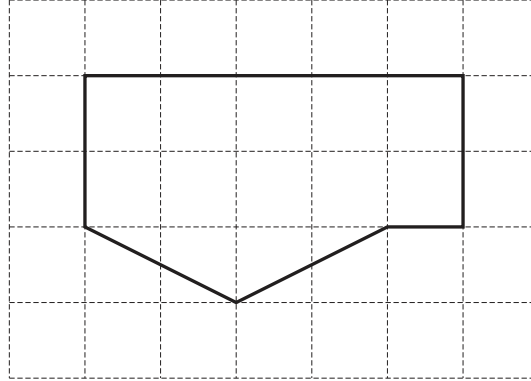
- (b) Find how long, in minutes, the bus is stationary.

..... min [1]

- 4 Write down the order of rotational symmetry of a rhombus.

..... [1]

- 5 The diagram shows a shape on a 1 cm^2 grid.



Find the area of this shape.

..... cm^2 [1]

- 6 (a) Work out.

$$28 - 16 \div 2$$

..... [1]

- (b) Find the reciprocal of $\frac{4}{5}$.

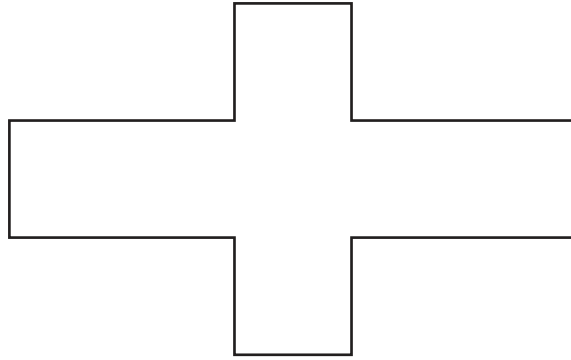
..... [1]

- 7 The temperature on Monday is -27°C .
The temperature on Tuesday is 15°C higher than on Monday.

Work out the temperature on Tuesday.

..... $^\circ\text{C}$ [1]

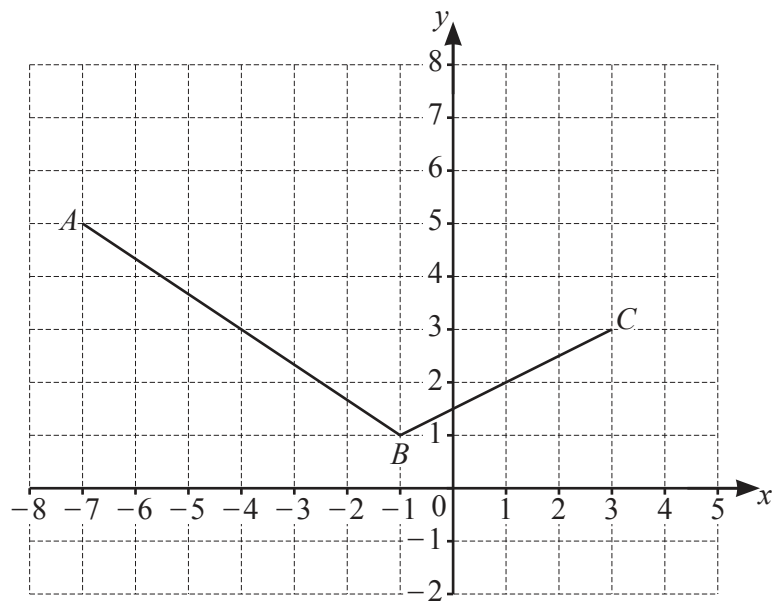
8



Draw all the lines of symmetry on this shape.

[2]

9

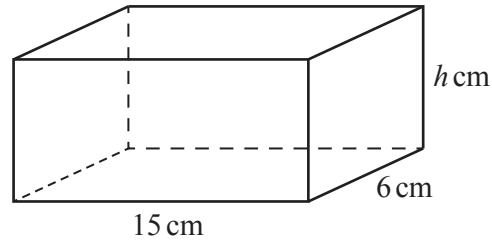


The diagram shows two sides of a parallelogram $ABCD$.

Find the coordinates of point D .

(..... ,) [2]

10

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The total surface area of this cuboid is 369 cm^2 .

Work out the value of h .

$h = \dots\dots\dots$ [4]

- 11 Geetha has a box of toys.
She picks a toy at random from the box.
The probability that she picks a wooden toy is 0.6 .

(a) Work out the probability that she does not pick a wooden toy.

$\dots\dots\dots$ [1]

(b) The box contains three types of toys, wooden, plastic or metal.

Type of toy	Wooden	Plastic	Metal
Number of toys		14	14
Probability	0.6		

Complete the table.

[2]

- 12 The table shows some information about two sequences.

	n th term	5th term
Sequence A	$60 - 4n$	
Sequence B	$n^2 - 300$	

Complete the table.

[2]

- 13 Find the coordinates of the point where the line $y = 3x - 5$ crosses the y -axis.

(..... ,) [1]

- 14 By writing each number in the calculation correct to 1 significant figure, find an estimate for the value of

$$\frac{28.2 - 5.6}{4.2 \times 1.68}.$$

You must show all your working.

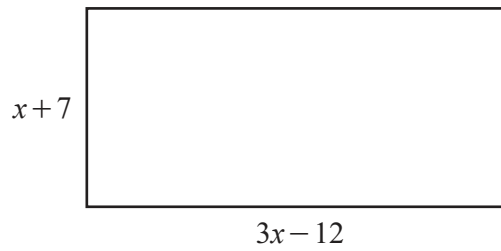
..... [2]

- 15 Factorise completely.

$$36x^2 + 40x$$

..... [2]

16

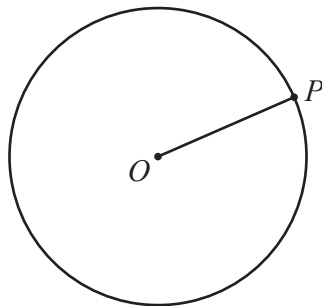
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The diagram shows a rectangle with length $3x - 12$ and width $x + 7$.

Find an expression for the perimeter of the rectangle.
Give your answer in its simplest form.

..... [3]

- 17 The diagram shows a circle, centre O .
 P lies on the circle.



- (a) Write down the mathematical name of the line OP .

..... [1]

- (b) Draw a tangent to the circle at P .

[1]

18 Find the greatest **odd** number that is a factor of 140 and a factor of 210.

..... [2]

19 Calculate.

(a) $\sqrt[3]{343} - \sqrt{40.96}$

..... [1]

(b) $(192 + 4 \times 16)^{1.25}$

..... [1]

20 (a) Find the value of 137^0 .

..... [1]

(b) $7^{12} \div 7^p = 7^{17}$

Find the value of p .

$p =$ [1]

21 Calculate $1.827 \times 10^6 \div 9000$.
Give your answer in standard form.

..... [2]

- 22 Solve the simultaneous equations.
You must show all your working.

$$\begin{aligned} 6x + 2y &= 29 \\ 3x - 4y &= 17 \end{aligned}$$

$$x = \dots\dots\dots$$

$$y = \dots\dots\dots [3]$$

- 23 Change 9.6 km/h into m/s.

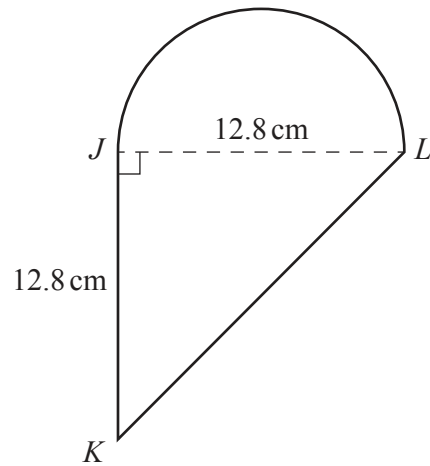
$$\dots\dots\dots \text{ m/s } [2]$$

- 24 These are the first five terms of a sequence.

11 18 25 32 39

Find an expression for the n th term of the sequence.

$$\dots\dots\dots [2]$$



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The diagram shows a shape made from a triangle JKL and a semicircle with diameter JL . JKL is an isosceles right-angled triangle with $JK = JL = 12.8$ cm.

- (a) Calculate the area of this shape.

..... cm^2 [3]

- (b) Calculate the perimeter of this shape.

..... cm [4]

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