



- 1 Write, in figures, fourteen thousand and twenty seven.

..... [1]

- 2 One day, at noon, in Maseru, the temperature was  $17^{\circ}\text{C}$ .  
At midnight the temperature was  $20^{\circ}\text{C}$  lower.

Work out the temperature at midnight.

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

- 3 Write down the value of  $12^0$ .

..... [1]

- 4 Write  $5.17 \times 10^{-3}$  as an ordinary number.

..... [1]

- 5 Write the following in order of size, starting with the smallest.

$$\frac{31}{50} \quad 64\% \quad \frac{5}{8} \quad 0.63$$

..... < ..... < ..... < ..... [2]  
*smallest*

- 6 A taxi journey costs \$4.50, plus 80 cents for each kilometre travelled.  
Julianna travels 7 km.

Work out the cost of her journey.

\$ ..... [2]

7 Work out.

$$\frac{6.32 + 2.06}{4.15 - 0.12}$$

Give your answer correct to 1 decimal place.

..... [2]

8 (a) 1 and 12 are factors of 12.

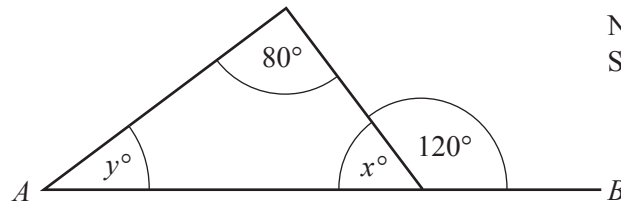
Write down all the other factors of 12.

..... [1]

(b) Write down the multiples of 9 between 20 and 40.

..... [1]

9



NOT TO SCALE

In the diagram,  $AB$  is a straight line.

Find the value of  $x$  and the value of  $y$ .

$x =$  .....

$y =$  ..... [2]

10 Write 55 g as a percentage of 2.2 kg.

..... % [2]

- 11** The area of a triangle is  $528 \text{ cm}^2$ .  
The length of its base is 33 cm.

Calculate the perpendicular height of the triangle.

..... cm [2]

- 12 (a)** As the temperature increases, the number of ice creams sold increases.  
What type of correlation is this?

..... [1]

- (b)** Write down the type of correlation there is between the height of an adult and the amount of money they earn.

..... [1]

- 13** Bastian has a bag containing four types of sweet.  
He takes a sweet from the bag at random.

Sweet	Mint	Fruit	Toffee	Chocolate
Probability	0.15	0.3		0.2

Complete the table.

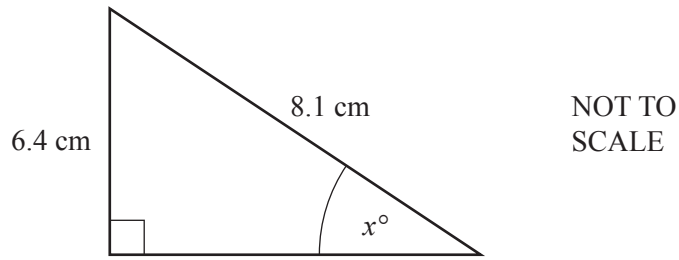
[2]

- 14** The length,  $l$  metres, of a ship is 362 m, correct to the nearest metre.

Complete the statement about the value of  $l$ .

.....  $\leq l <$  ..... [2]

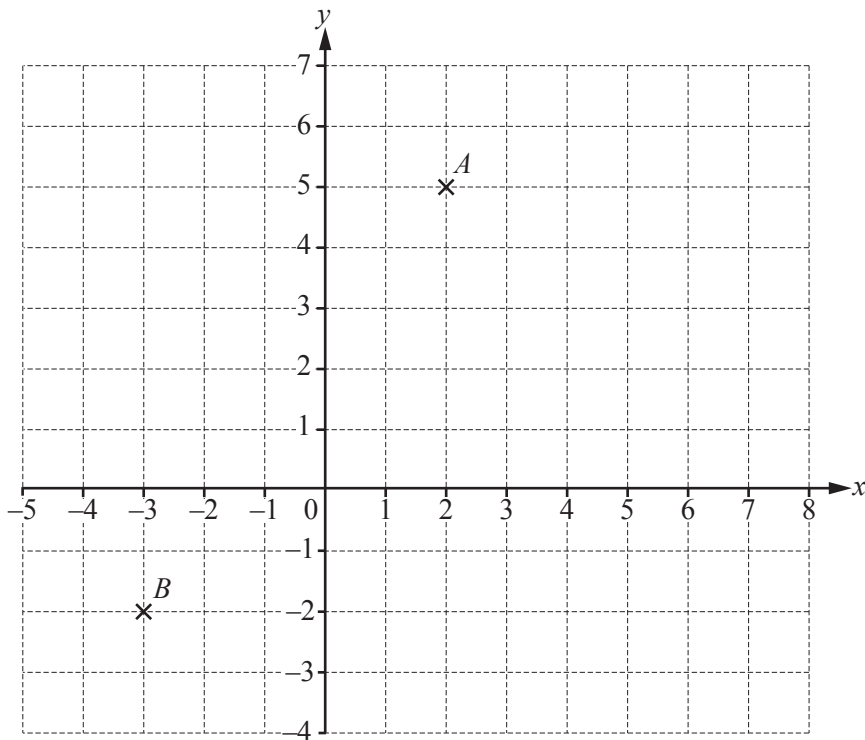
15



Calculate the value of  $x$ .

$x = \dots\dots\dots$  [2]

16



(a) Write down the co-ordinates of point  $A$ .

(....., ..... ) [1]

(b) Plot point  $C$  at  $(7, -2)$ .

[1]

(c) Write down the mathematical name of the triangle formed by joining the points  $A$ ,  $B$  and  $C$ .

..... [1]

17  $AB$  is a straight line.



(a) Measure the length of  $AB$ .

..... cm [1]

(b) Mark the midpoint of  $AB$ .

[1]

(c) Draw a line perpendicular to  $AB$ .

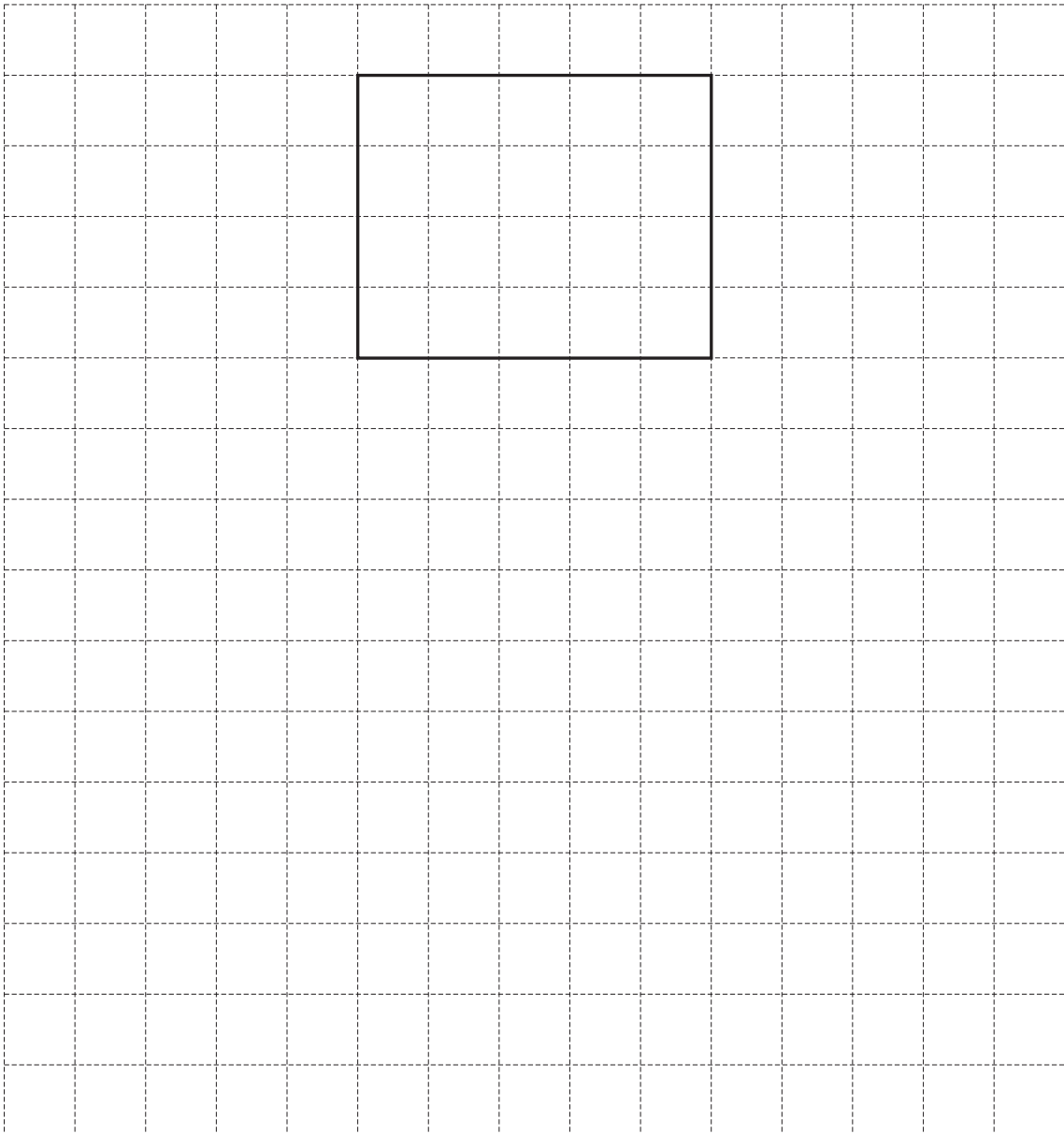
[1]

18 Find the size of the interior angle of a regular hexagon.

..... [3]

- 19 A cuboid measures 5 cm by 4 cm by 3 cm.

On the  $1\text{ cm}^2$  grid, draw an accurate net of this cuboid.  
One face has been drawn for you.



[3]

20 (a) Write  $\frac{11}{3}$  as a mixed number.

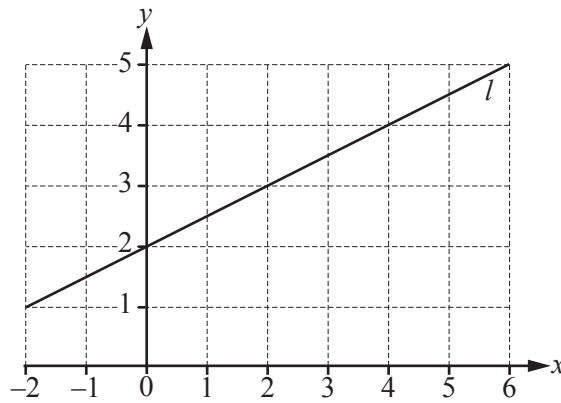
..... [1]

(b) **Without using a calculator**, work out  $\frac{1}{4} + \frac{5}{12}$ .

Show all the steps of your working and give your answer as a fraction in its lowest terms.

..... [2]

21



Find the equation of the line  $l$  in the form  $y = mx + c$ .

$y =$  ..... [3]



- 22 (a) These are the first four terms of a sequence.

8      15      22      29

- (i) Write down the next term.

..... [1]

- (ii) Write down the rule for continuing the sequence.

..... [1]

- (b) These are the first four terms of a different sequence.

2      6      10      14

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

..... [2]

- 23 Solve the equations.

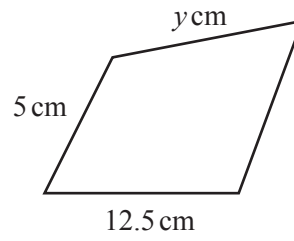
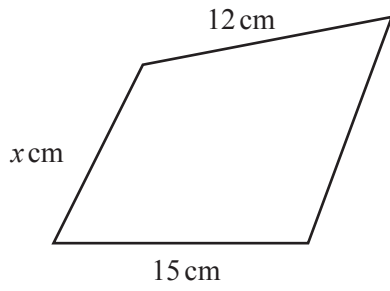
(a)  $7 - 3n = 11n + 2$

$n =$  ..... [2]

(b)  $\frac{p-3}{5} = 3$

$p =$  ..... [2]

24

NOT TO  
SCALE

The two shapes are mathematically similar.

Find the value of

(a)  $x$ ,

$$x = \dots\dots\dots [2]$$

(b)  $y$ .

$$y = \dots\dots\dots [2]$$



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