

[Turn over

- 1 (a) Write the number four hundred thousand and four hundred in figures.

..... [1]

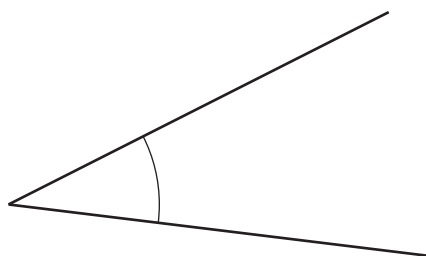
- (b) Write 60 287 correct to the nearest ten.

..... [1]

- 2 Find the value of $\sqrt{345.96}$.

..... [1]

3



Write down the mathematical name for this type of angle.

..... [1]

- 4 (a) Write 9% as a decimal.

..... [1]

- (b) Write 0.6 as a fraction in its simplest form.

..... [1]

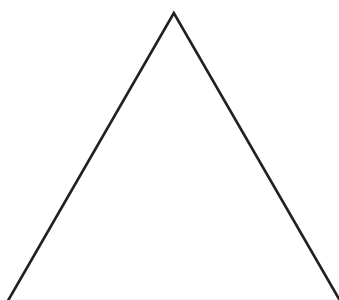
- 5 Write down the reciprocal of 20.

..... [1]

- 6 (a) Write down the order of rotational symmetry of a rectangle.

..... [1]

(b)



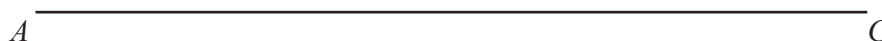
Draw all the lines of symmetry on this equilateral triangle. [2]

- 7 In triangle ABC , $AB = 7$ cm and $BC = 5.6$ cm.

Using a ruler and compasses only, construct triangle ABC .

Leave in your construction arcs.

The line AC has been drawn for you.



[2]

- 8 The temperature at midnight is -8.5°C .
The temperature at 11 am is -1°C .

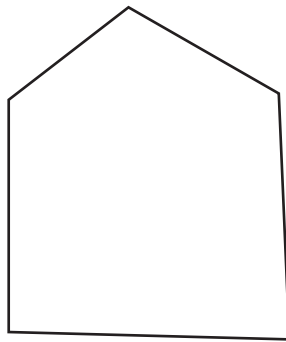
Work out the difference between the temperature at midnight and the temperature at 11 am.

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

- 9 Change 0.3 metres into centimetres.

..... cm [1]

10

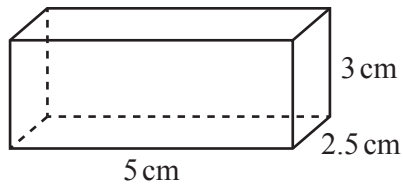


Write down the mathematical name of this polygon.

..... [1]

5

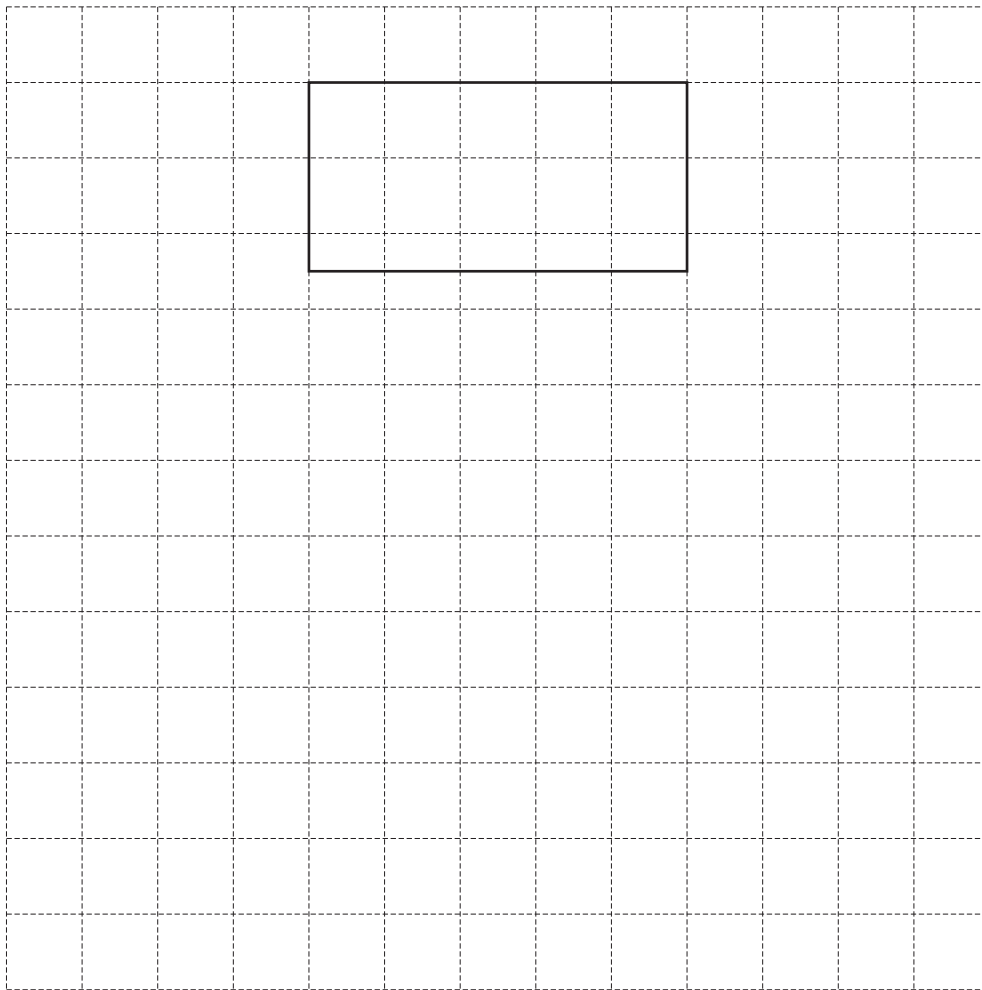
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The diagram shows a cuboid.

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



[3]

- 12 The stem-and-leaf diagram shows the age, in years, of each of 15 women.

3	1	5	8	9			
4	1	1	2	3	5	6	9
5	0	2	3	8			

Key: 3 | 1 represents 31 years

Complete these statements.

The modal age is

The median age is

The percentage of women that are older than 51 years is %. [3]

- 13 The price of a coat is 84.60 euros.

Find the price of the coat in dollars when the exchange rate is 1 euro = \$1.15 .

\$ [1]

- 14 Work out.

(a) $\begin{pmatrix} 3 \\ -2 \end{pmatrix} + \begin{pmatrix} -5 \\ 7 \end{pmatrix}$

$\begin{pmatrix} \\ \end{pmatrix}$ [1]

(b) $5 \begin{pmatrix} 3 \\ -1 \end{pmatrix}$

$\begin{pmatrix} \\ \end{pmatrix}$ [1]

15 Change 2.15 hours into minutes.

..... min [1]

16 (a) Solve.

$$7x + 18 = 4$$

$x =$ [2]

(b) $7^y \times 7^6 = 7^{18}$

Find the value of y .

$y =$ [1]

8

17 These are the first four terms of a sequence.

3 10 17 24

(a) Write down the next term.

..... [1]

(b) Write down the term to term rule.

..... [1]

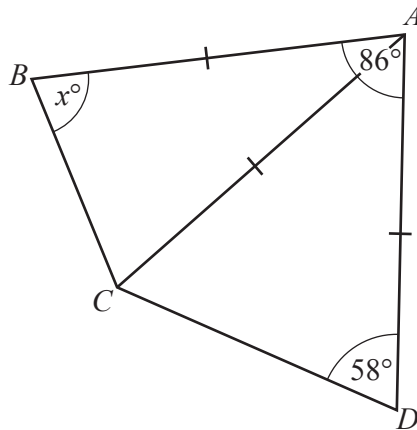
(c) Find the n th term.

..... [2]

(d) Find the 40th term.

..... [2]

18



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Triangle ABC and triangle ACD are isosceles.
Angle $DAB = 86^\circ$ and angle $ADC = 58^\circ$.

Find the value of x .

$x = \dots\dots\dots$ [3]

- 19** Angelique rents a room for a party.
The cost of renting the room is \$15.50 for the first hour and then \$7.25 for each additional hour.
She pays \$95.25 in total.

Work out the total number of hours she rents the room for.

$\dots\dots\dots$ hours [3]

10

- 20 Without using a calculator, work out $\frac{1}{3} \div \frac{7}{6} + \frac{1}{5}$.

You must show all your working and give your answer as a fraction in its simplest form.

..... [4]

- 21 Work out the size of one interior angle of a regular 10-sided polygon.

..... [2]

- 22 In a group of 650 people, 117 are left-handed.

Find the expected number of left-handed people in a group of 5000 people.

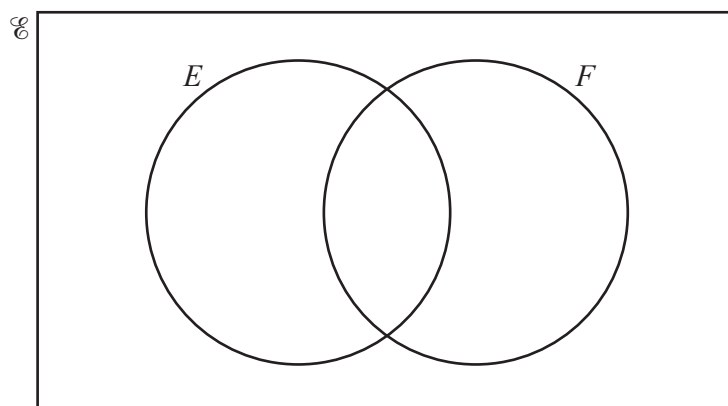
..... [2]

- 23 (a) At an airport, 216 people are asked whether they speak English (E) or French (F).

125 speak English.

43 speak both English and French.

61 do not speak English or French.



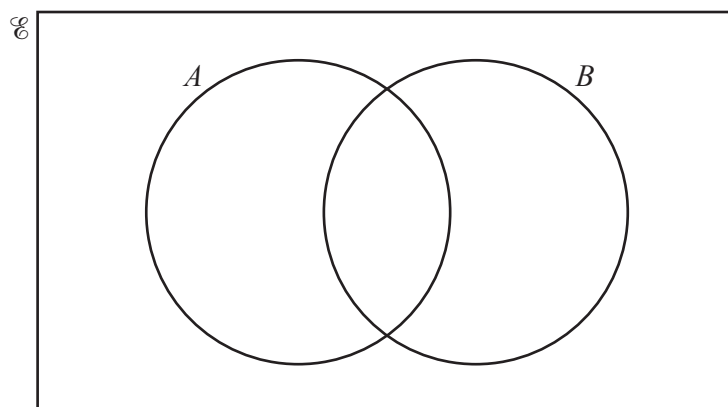
- (i) Complete the Venn diagram.

[2]

- (ii) Find $n(F)$.

..... [1]

- (b)



On this Venn diagram, shade the region $A \cap B$.

[1]

Question 24 is printed on the next page.

- 24 Yasmin has 4 white flowers, 3 red flowers and x yellow flowers.
She picks a flower at random.

The probability that it is white is $\frac{1}{5}$.

Find the probability that it is yellow.

..... [4]

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