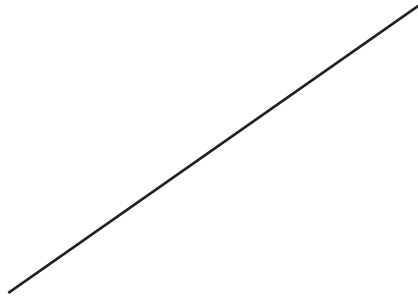


- 1 Write in figures the number six thousand and fifty four.

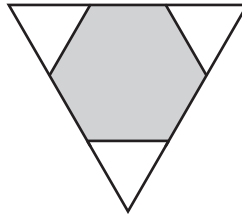
Answer [1]

- 2 Measure the length of this line in centimetres.



Answer cm [1]

- 3 Write down the order of rotational symmetry of this shape.



Answer [1]

- 4 Write 168.9 correct to 2 significant figures.

Answer [1]

- 5 Calculate $\frac{2.07 - 1.89}{5.71 - 3.92}$.

Answer [1]

- 6 The probability that it will rain on any day is $\frac{1}{5}$.

Calculate an estimate of the number of days it will rain in a month with 30 days.

Answer [1]

- 7 11 12 13 14 15 16

From the list of numbers, write down

- (a) the factors of 60,

Answer(a) [1]

- (b) the prime numbers.

Answer(b) [1]

- 8 These are the first four terms in a sequence.

21 17 13 9

- (a) Write down the next number in this sequence.

Answer(a) [1]

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

Answer(b) [1]

- 9 Simplify.

$$1 - 2u + u + 4$$

Answer [2]

- 10 (a) At 9 am the temperature was -3°C .
At 1 pm the temperature had risen by 5°C .

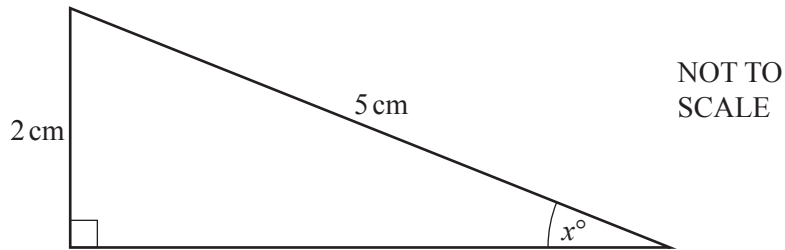
Work out the temperature at 1 pm.

Answer(a) $^{\circ}\text{C}$ [1]

- (b) Work out $-7 - 2$.

Answer(b) [1]

11



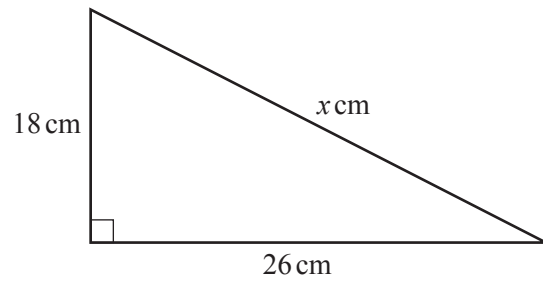
Calculate the value of x .

Answer $x =$ [2]

- 12 Write 72 as a product of its prime factors.

Answer [2]

13

NOT TO
SCALE

Calculate the value of x .

Answer $x =$ [2]

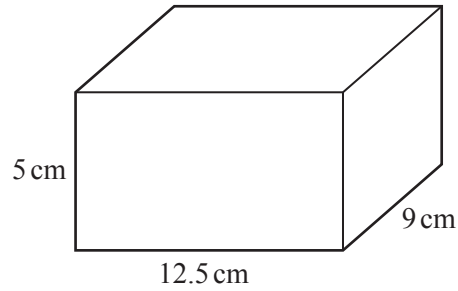
14 In this question use a ruler and compasses only and show all your construction arcs.

Using a scale of 1 centimetre to represent 50 metres, construct a triangle with sides 550 m, 450 m and 300 m. The 300 m side has been drawn for you.



[2]

15

NOT TO
SCALE

Calculate the volume of this cuboid.
Give the units of your answer.

Answer [3]

16 Work out $\frac{2}{3} + \frac{1}{6} - \frac{1}{4}$, giving your answer as a fraction in its lowest terms.

Do not use a calculator and show all the steps of your working.

Answer [3]

17 (a) Multiply out.

$$3(x + 7)$$

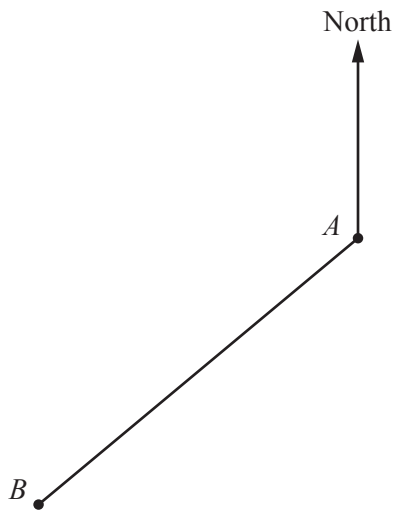
Answer(a) [1]

(b) Factorise completely.

$$2x - 4x^2$$

Answer(b) [2]

- 18 This scale drawing shows the positions of two towns, A and B , on a map.



- (a) Measure the bearing of town B from town A .

Answer(a) [1]

- (b) On the map, town C is 8 cm from town A on a bearing of 155° .

Mark the position of town C on the scale drawing. [2]

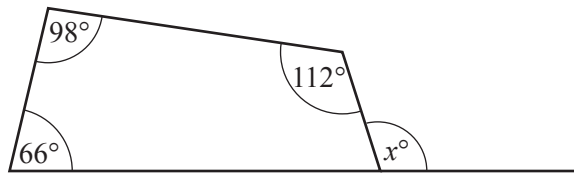
- 19 (a) Write 1.7×10^{-4} as an ordinary number.

Answer(a) [1]

- (b) Work out $(3.8 \times 10^4) \times (2.7 \times 10^{-8})$.
Give your answer in standard form.

Answer(b) [2]

- 20 (a) The diagram shows a quadrilateral with one side extended.



NOT TO
SCALE

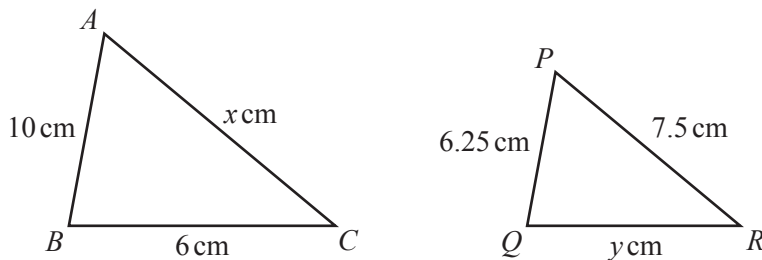
Find the value of x .

Answer(a) $x = \dots\dots\dots$ [2]

- (b) Find the sum of the interior angles of a 25-sided polygon.

Answer(b) $\dots\dots\dots$ [2]

21



NOT TO
SCALE

The diagram shows two similar triangles ABC and PQR .

Find the value of

- (a) x ,

Answer(a) $x = \dots\dots\dots$ [2]

- (b) y .

Answer(b) $y = \dots\dots\dots$ [2]

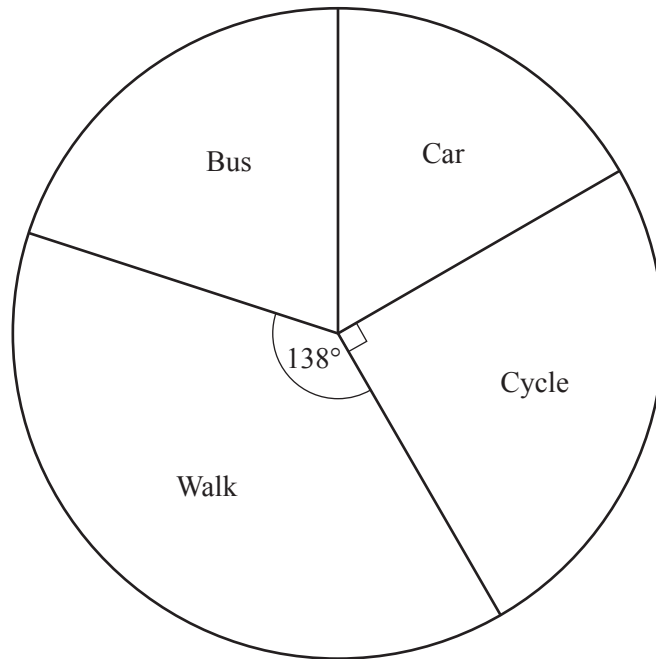
- 22 Solve the simultaneous equations.
You must show all your working.

$$5x + 2y = 8$$
$$2x - 3y = 26$$

Answer $x =$

$y =$ [4]

23 (a) The pie chart shows how 120 students travel to school.



(i) Measure the sector angle for the students who travel to school by car.

Answer(a)(i) [1]

(ii) What fraction of the students cycle to school?

Answer(a)(ii) [1]

(iii) Calculate how many students walk to school.

Answer(a)(iii) [2]

- (b) Wei records the number of children living in each of the houses in a street. Her results are recorded in the table.

Number of children	Frequency
0	3
1	3
2	8
3	5
4	4
5	2

Calculate the mean number of children per house.

Answer(b) [3]

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