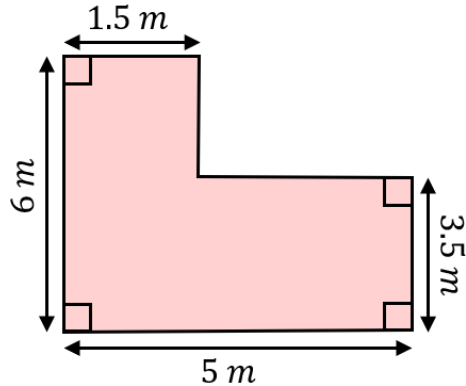


Geometry Revision

3

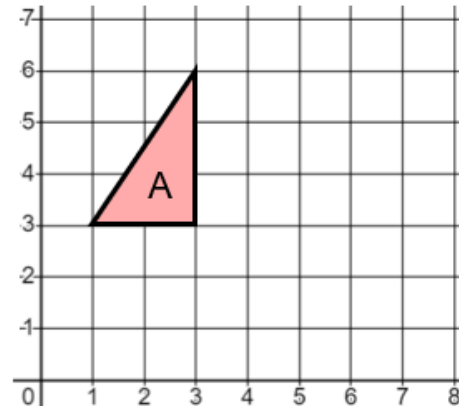
(a)

Work out the area of the shape shown.



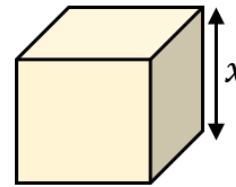
(b)

On the grid, translate triangle A by the vector $\begin{pmatrix} 5 \\ -2 \end{pmatrix}$



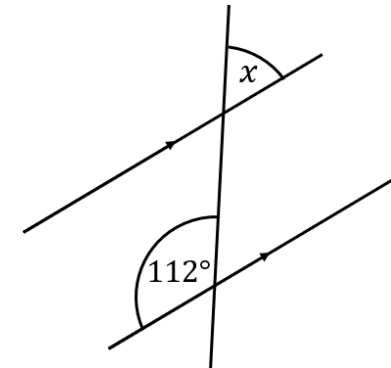
(c)

The surface area of the cube shown is 486 cm^2 . Find the value of x .



(d)

Find the value of x . Give reasons for your answer.



(e)

Using only ruler and compasses, construct an equilateral triangle. The first side has been drawn for you.



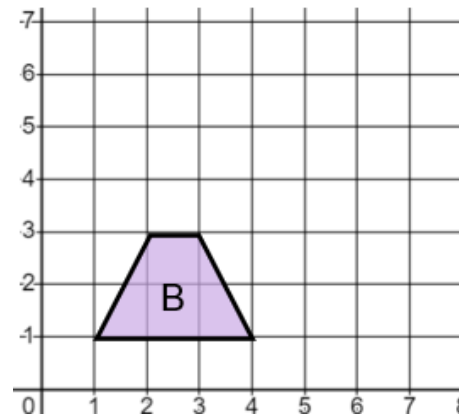
(f)

(i) Calculate the area of a circle with a radius of 8 cm . Give your answer to 1 decimal place.

(ii) Calculate the circumference of a circle with a radius of 55 mm . Leave your answer in terms of π .

(g)

On the grid, reflect shape B in the line $y = 4$.



(h)

The volume of the triangular prism shown is 1512 cm^3 . Find the value of x .

