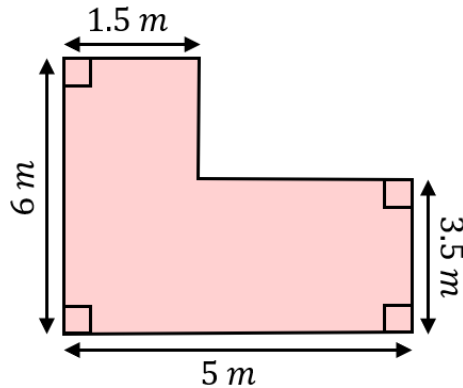


## Geometry Revision

**3**

**(a)**

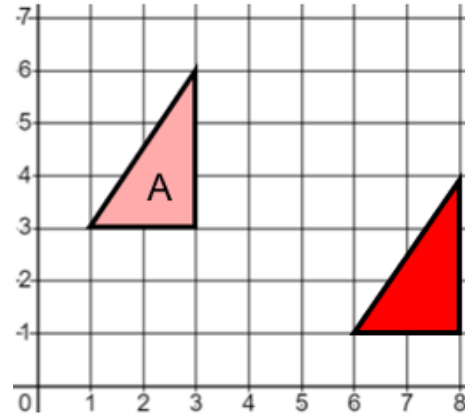
Work out the area of the shape shown.



$21.25 \text{ m}^2$

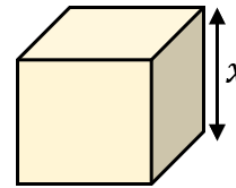
**(b)**

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



**(c)**

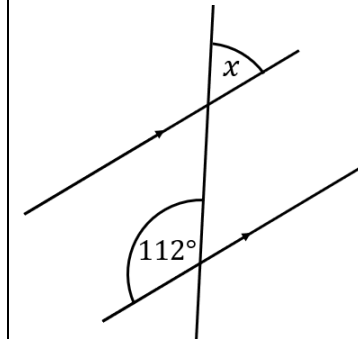
The surface area of the cube shown is  $486 \text{ cm}^2$ . Find the value of  $x$ .



$9 \text{ cm}$

**(d)**

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

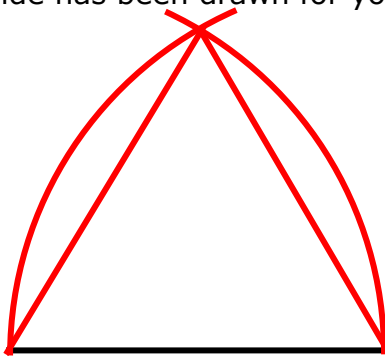


$68^\circ$

*angles on a straight line add to  $180^\circ$ , corresponding angles are equal*

**(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  $8 \text{ cm}$ . Give your answer to 1 decimal place.

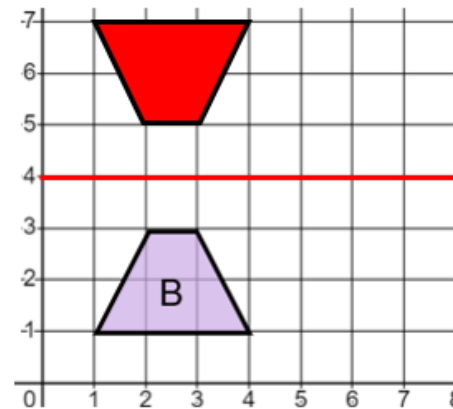
$201.1 \text{ cm}^2$

(ii) Calculate the circumference of a circle with a radius of  $55 \text{ mm}$ . Leave your answer in terms of  $\pi$ .

$110\pi \text{ mm}$

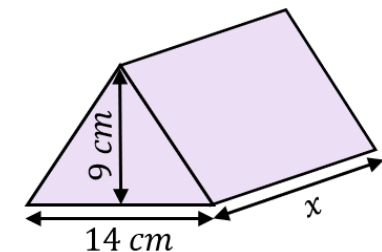
**(g)**

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



**(h)**

The volume of the triangular prism shown is  $1512 \text{ cm}^3$ . Find the value of  $x$ .



$24 \text{ cm}$