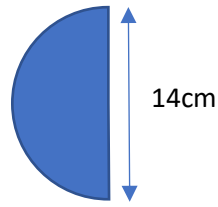
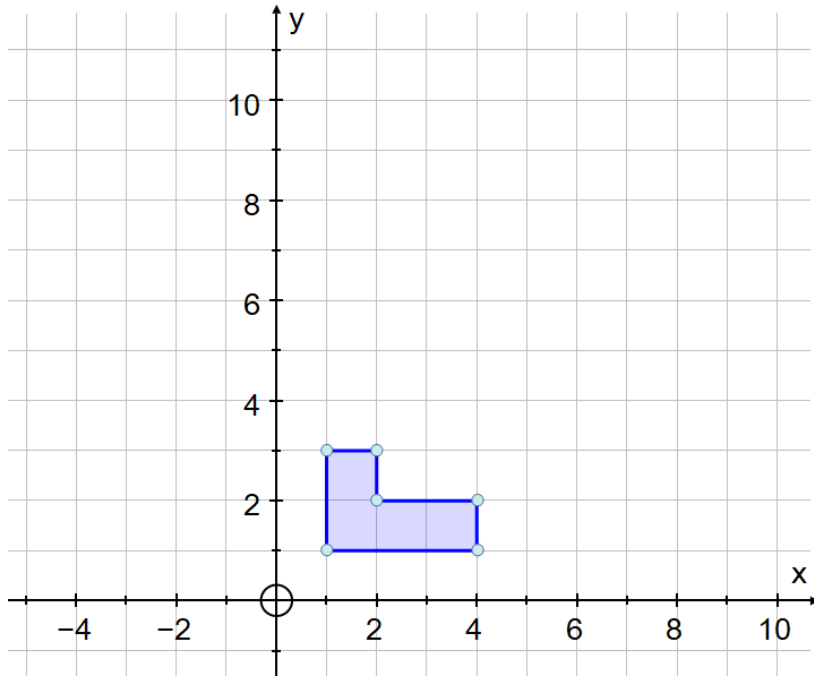


Interleaf 8

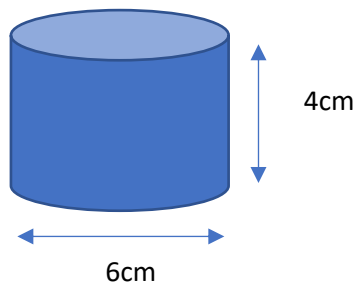


- 1) Find the perimeter of the semi-circle to the right
Give your answer to 3sf.

- 2) Rotate the shape below by 180° around the point $(1, 5)$

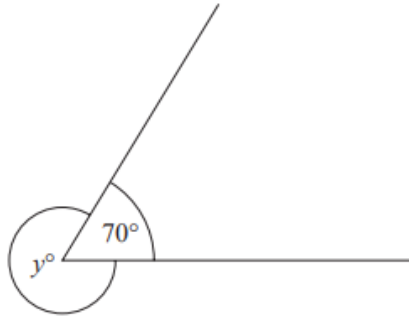


- 3) Find the radius of a circle with an area of 20cm^2
Give your answer to 3sf
- 4) Two similar pictures have areas of 1255cm^2 and 4500cm^2 .
Given that the smaller has a perimeter of 80cm, find the perimeter of the larger.
- 5) Find the surface area of the cylinder given below to 3sf



- 6) Expand and simplify $(2x - 3)(x - 5)$

- 7) Find the size of angle y and give a geometrical reason why



- 8) Make x the subject of: $y = mx + c$
- 9) Find the equation of the straight line joining (4, 5) and (6, -1)

Answers 1) 36.0cm 2) new vertices at (1,7) (1,9) (-2,9) (-2,8) (0,8) (0,7) 3) 2.52 4) 480cm 5) 132cm^2
6) $2x^2 - 13x + 15$ 7) 290, angles around a point add to 360 8) $x = \frac{y-c}{m}$
9) $y = -3x + 17$