

## Year 7 - Tutorial Weekly Tutorial - 16

mathsalpha.com

1. Solve;  $2(x - 1) \geq x - 7$

2. Solve;  $\frac{5x+3}{2} = \frac{-3(5+2x)}{4}$

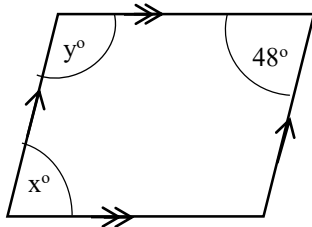
3. Simplify.

a)  $5\frac{3}{5} - 7\frac{2}{3}$

b)  $3\frac{2}{5} \times 2\frac{1}{7}$

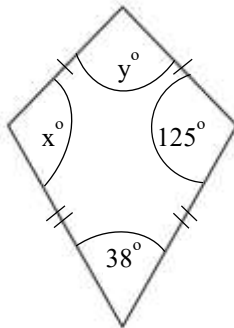
4.

a)



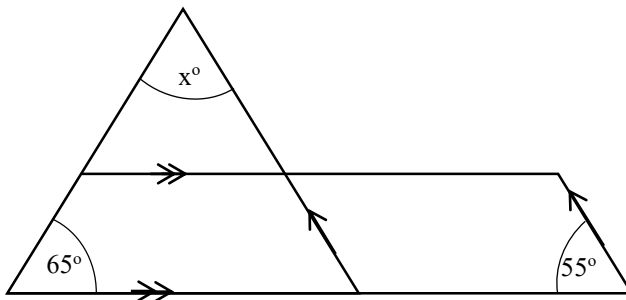
Find angles  $x^\circ$  and  $y^\circ$ .

b)



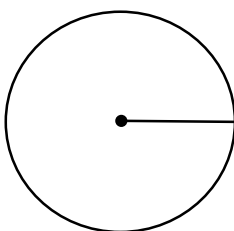
Find angles  $x^\circ$  and  $y^\circ$ .

5.



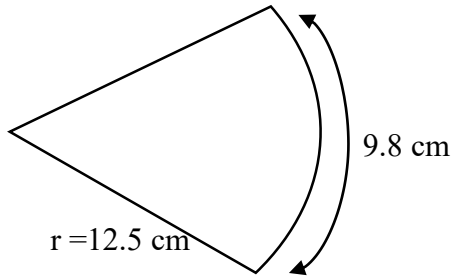
Find angle  $x^\circ$ .

6.



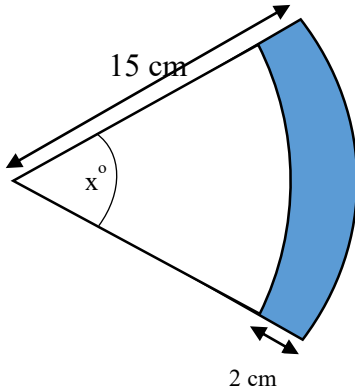
Area of the circle is  $176.7 \text{ cm}^2$ . Find the circumference of the circle.

7.



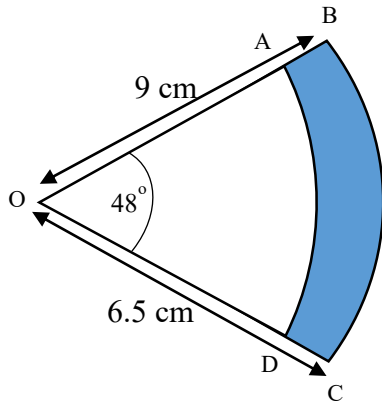
Find the area of the sector correct to 1 dp.

8.



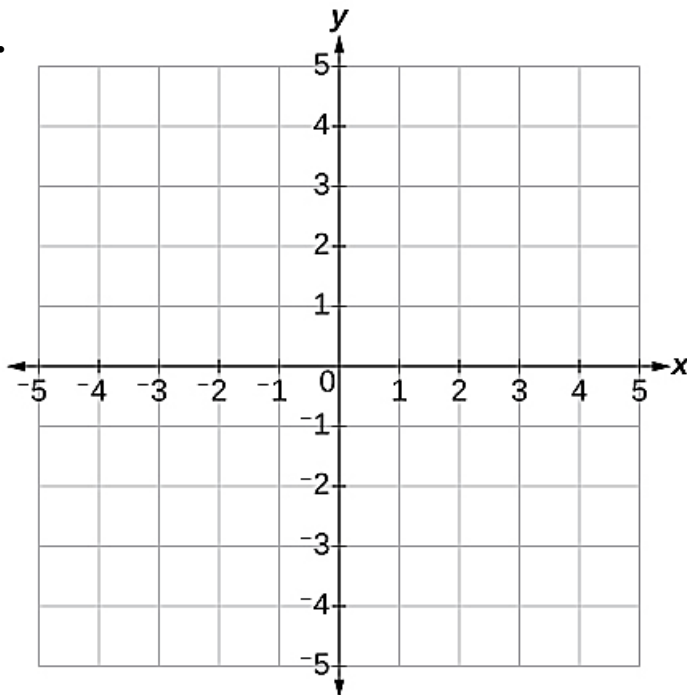
Find the shaded area.

9.



Find the perimeter of the shape ABCD, covering shaded region.

10.



a) Draw following straight line on the x-y plane.

$$x = 2$$

$$x = -3$$

$$y = 2$$

$$y = -4$$

b) Write the coordinate at intersection points of lines  $x = 2$  and  $y = -4$ .