

# **MA = 38 days to go!**

3 Write 200 as a product of prime factors, using index notation.

Answer \_\_\_\_\_ [3]

15  $a = 3.2$  and  $b = 5.8$  are both correct to 1 decimal place.

Find

(a) the minimum possible value of  $b - a$ ,

Answer \_\_\_\_\_ [1]

(b) the maximum possible value of  $\frac{b}{a}$

Answer \_\_\_\_\_ [2]

18 The diagram shows a sector AOB of a circle, with radius 13 cm and centre O.

The point C lies on OB and angle ACO is  $90^\circ$

OC = 5 cm.

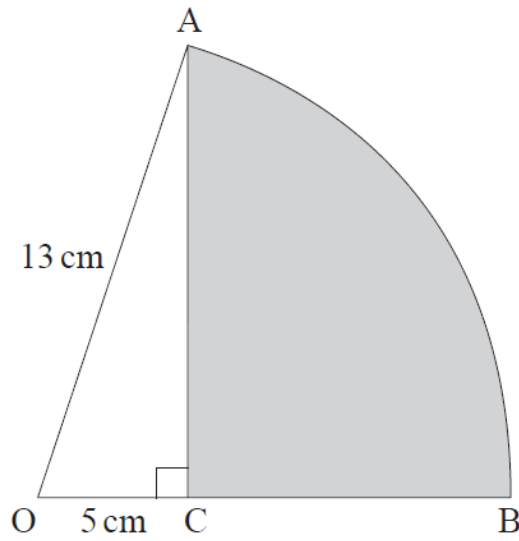


diagram  
not drawn  
accurately

Find the area of the shaded section ABC.

Answer \_\_\_\_\_  $\text{cm}^2$  [8]