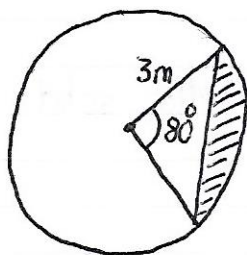
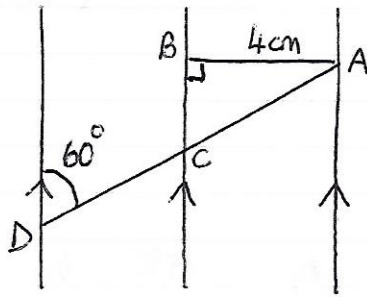


- 1) Increase £7328 by 35%
- 2) When a number is increased by 15% the answer is 138. What is the original number.
- 3) Factorise
- a) $2x^2 + 6x$
 - b) $4x^2 - 9$
 - c) $x^2 - 5x - 6$
 - d) $3x^2 - 7x - 6$
- 4) The length of a rectangle is measured as 6m to the nearest m
The area of the rectangle is measured as 24m^2 to the nearest 2m^2
Calculate the least value the width of the rectangle could be.

- 5) Calculate the area shaded



6)

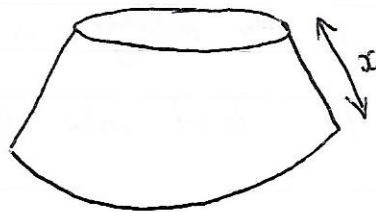
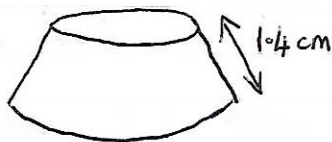


Calculate AC

7) Solve the following quadratic equation to 2 decimal places

FIVE $\rightarrow 5x^2 + 2x - 8 = 0$

8)



The solids are similar.

- The surface area of the small solid is 32cm^2
- The surface area of the large solid is 128cm^2
- The volume of the large solid is 160cm^3

a) Calculate the length scale factor

b) Calculate x

c) Calculate the volume of the smaller solid