

# M8 = 13 days to go!

2 At a football match the ratio of male to female spectators was 11:3  
The attendance was 50 092

(a) How many male spectators were there?

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

(b) How many female spectators were there?

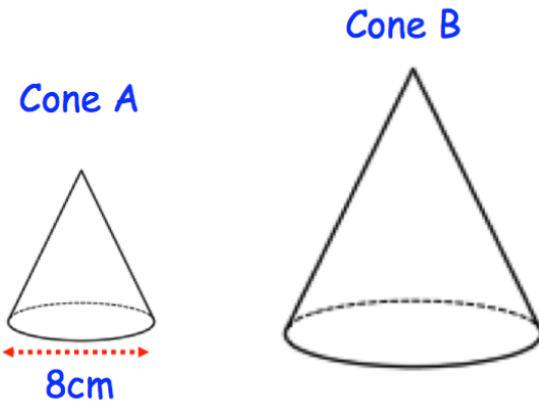
Answer \_\_\_\_\_ [1]

Rationalise the denominator of

$$\frac{12}{\sqrt{3}}$$

.....  
(2)

13.



Cone A and cone B are mathematically similar.  
 The total surface area of cone A is  $120\text{cm}^2$   
 The total surface area of cone B is  $1080\text{cm}^2$   
 The diameter of cone A is  $8\text{cm}$ .

Work out the diameter of cone B.

.....cm  
 (3)

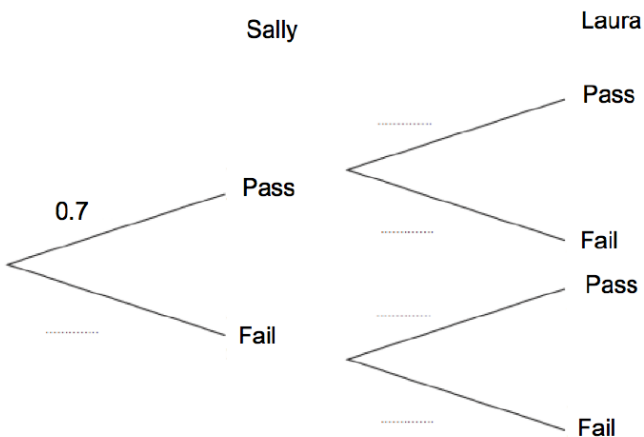
10. Sally and Laura sit their driving tests.

The probability of Sally passing her driving test is  $0.7$   
 The probability of both Sally and Laura passing is  $0.56$

(a) Work out the probability of Laura passing her driving test.

.....  
 (2)

(b) Complete the tree diagram.



(2)

(c) Find the probability of both women failing.