

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

$$\boxed{M=11 \quad F=3} = 14$$

- (a) How many male spectators were there?

$$50092 \div 14 = 3578 \text{ per part}$$
$$3578 \times 11$$

Answer = 39358 [2]

- (b) How many female spectators were there?

$$3578 \times 3$$

Answer = 10734 [1]

(Rationalise the denominator) of

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

no surd on bottom

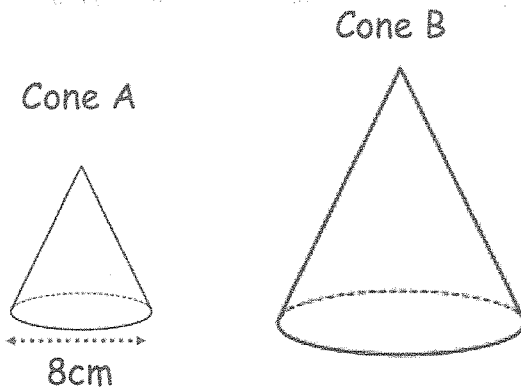
$$\frac{12}{\sqrt{3}} \times \frac{\sqrt{3}}{\sqrt{3}} = \frac{12\sqrt{3}}{3} \div 3 = \frac{4\sqrt{3}}{1}$$

simplify

$$\frac{4\sqrt{3}}{1}$$

(2)

13.



$$\text{Area S.F} = \frac{1080}{120}$$

$$\text{Area S.F} = 9$$

$$\text{SO Length S.F} = \sqrt{9} = 3$$

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

Work out the diameter of cone B.

$$\text{Cone A diameter} \times 3$$

$$8 \times 3$$

$$\underline{24} \text{ cm}$$

(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

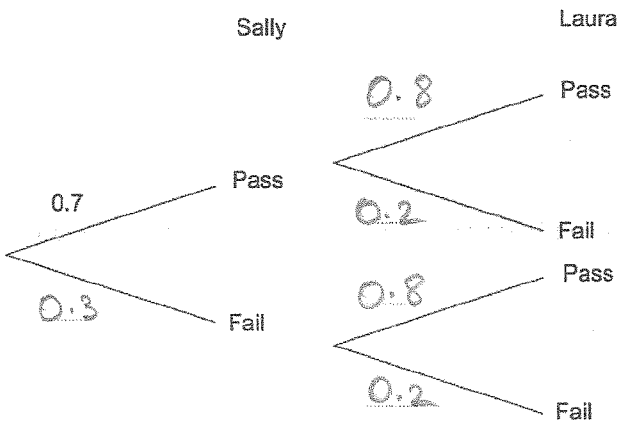
(a) Work out the probability of Laura passing her driving test.

$$\frac{0.56}{0.7} =$$

$$\underline{0.8}$$

(2)

(b) Complete the tree diagram.



(2)

(c) Find the probability of both women failing.

$$0.3 \times 0.2 = 0.06$$