

28th September



Corbettmaths

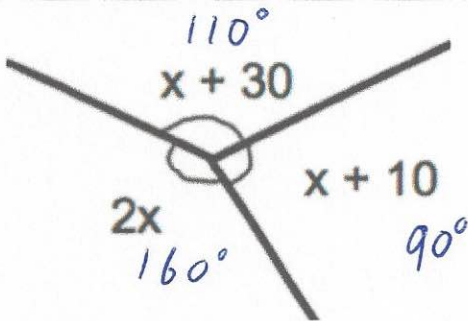
What is the reciprocal of 8?

$$\frac{1}{8}$$

What is the reciprocal of 0.4?

$$0.4 = \frac{2}{5}$$

$$\frac{5}{2} \text{ or } 2\frac{1}{2}$$



Find the size of each angle.

$$4x + 40 = 360$$

$$4x = 320$$

$$x = 80^\circ$$

In a small village, one bus arrives a day. The probability of rain in the village is 0.3.

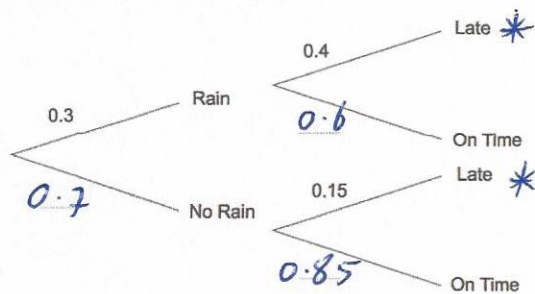
If it rains, the probability of a bus being late is 0.4.

If it does not rain, the probability of a bus being late is 0.15.

Complete the tree diagram

$$P(RL) = 0.3 \times 0.4 = 0.12$$

$$P(NR L) = 0.7 \times 0.15 = 0.105$$



Work out the probability the bus will be late.

$$0.12 + 0.105 = 0.225$$

A square-based pyramid has a base with side length 15cm. The perpendicular height of the pyramid is 10cm.

$$A = 15 \times 15 = 225$$

Calculate the volume of the pyramid.

$$V = \frac{1}{3} Ah$$

$$V = \frac{1}{3} (225) \times 10 = 750 \text{ cm}^3$$