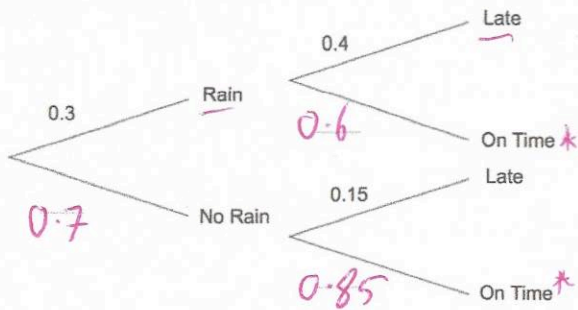


30th January



Corbettmaths



Find the probability that on a day selected at random, it is **rainy** and the bus is **late**.

$$0.3 \times 0.4 = 0.12$$

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.

Find the probability that the bus is **on time**

$$0.3 \times 0.6 = 0.18$$

$$0.7 \times 0.85 = 0.595$$

$$\underline{0.775}$$

Solve

$$5y + 3 < 28$$

$$5y < 25$$

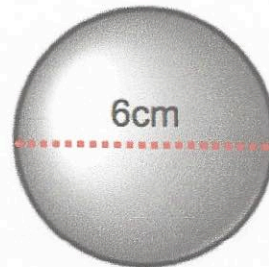
$$y < 5$$

Find the volume of the sphere.

$$\frac{4}{3} \pi r^3$$

$$\frac{4}{3} \times \pi \times 3^3$$

$$36\pi \text{ or } 113.1 \text{ cm}^3$$



4 schools sent students to a languages course.

One of the schools sent both French and German students. The ratio of French to German students it sent was 1 : 3. The school sent 21 German students.

$$7 \text{ french } \quad 1:3$$

$$7:21 \quad (28) \text{ students}$$

The other 3 schools sent the same number of students.

Work out the total number of students sent to the languages course.

$$4 \times 28 = 112 \text{ students}$$