

Solve  $7x + 3 = 30 - 3x$ 

$$10x = 27$$

$$x = 2.7$$

Solve the simultaneous equations

$$3x - 4y = 17 \quad \times 5$$

$$2x - 5y = 2 \quad \times 4$$

$$22 - 5y = 2$$

$$5y = 20 \quad y = 4$$

$$15x - 20y = 85$$

$$8x - 20y = 8$$

$$\hline 7x = 77$$

$$x = 11$$

$$x = 11, y = 4$$

Calculate the mass of a piece of metal that has a volume  $100\text{cm}^3$  and density  $4.7\text{g/cm}^3$ 

$$m = d \times v$$

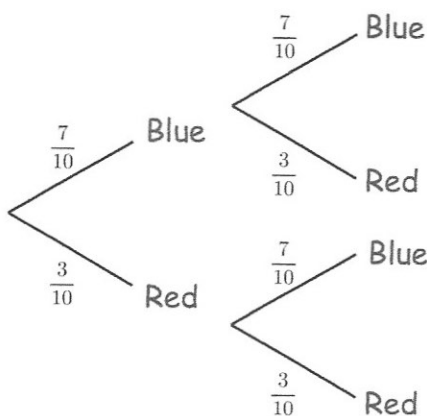
$$4.7 \times 100 = 470\text{g}$$

$$470\text{g}$$

A pen is picked at random from a pot and then put back in and a second pen is picked.

1st pen

2nd pen



If there are 20 pens altogether, how many pens are blue?

$$P(B) = \frac{7}{10}$$

$$\frac{7}{10} \text{ of } 20 = 14$$

What is the probability of picking two red pens?

$$\frac{3}{10} \times \frac{3}{10} = \frac{9}{100}$$