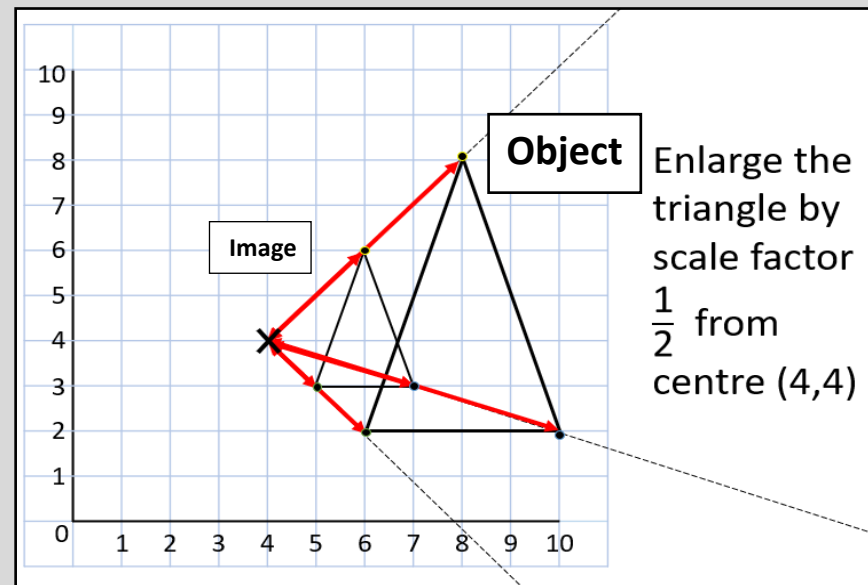


(1) Key Terms

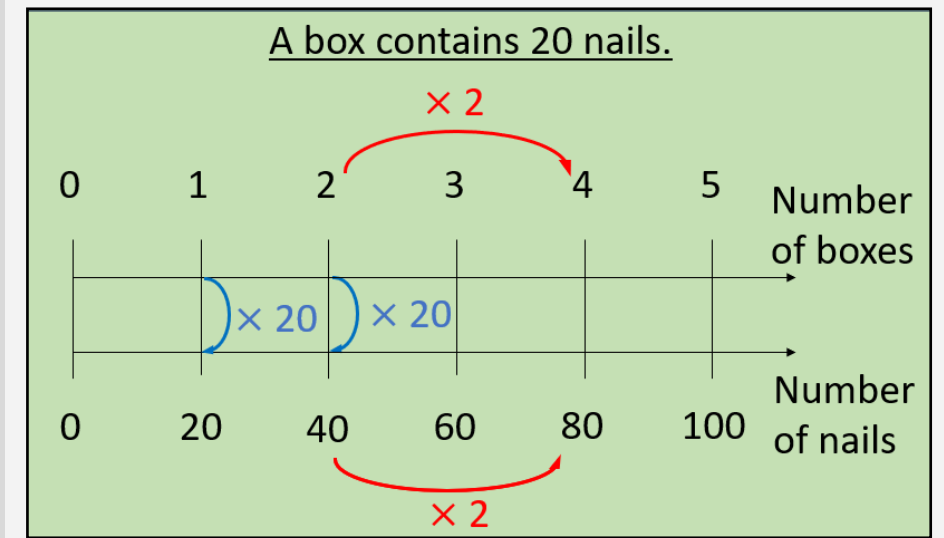
Direct Proportion	If two quantities are in direct proportion, as one increases the other increases at the same rate.
Inverse Proportion	If two quantities are in inverse proportion, as one increases the other decreases at the same rate.
Distance Time Graph	Graphs that show the distance an object or person has travelled against time.
Speed	The rate at which an object is moving.
Density	A measure of mass per unit of volume.

(2) Fractional Enlargement



In maths an **Enlargement** can make an object smaller!

(3) Direct Proportion

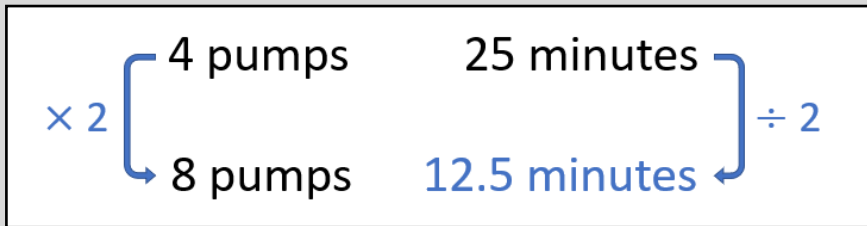
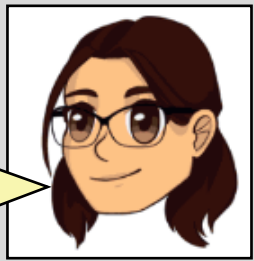


If two quantities increase at the same rate they are in **Direct Proportion**.



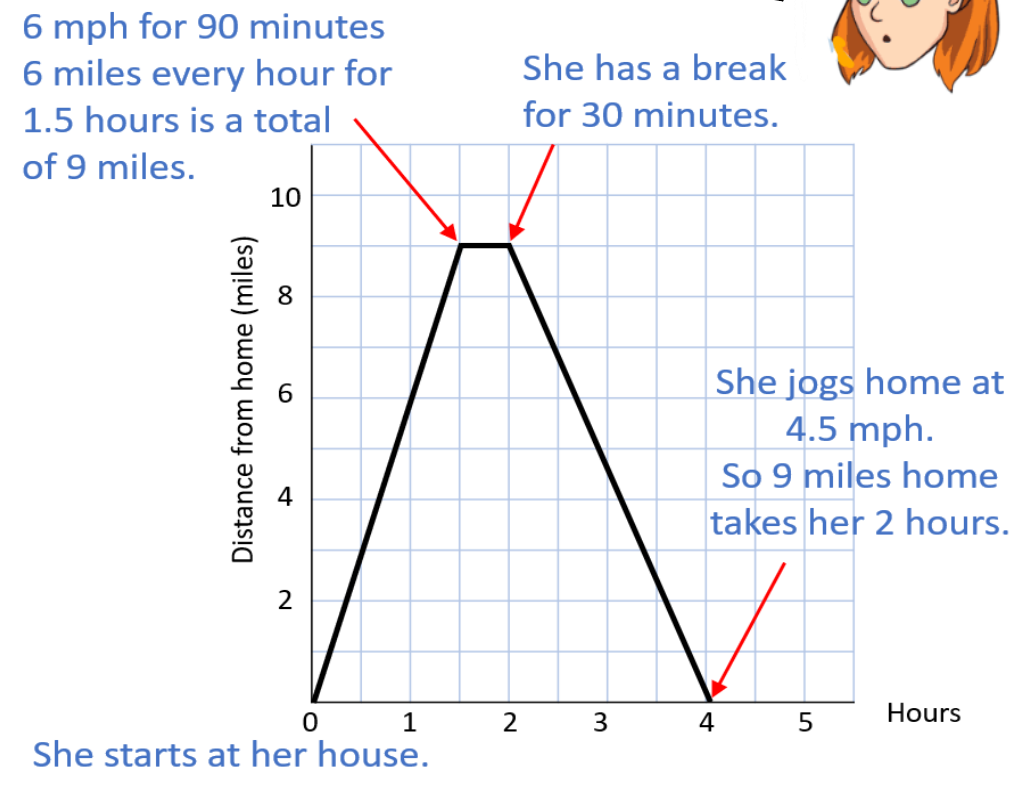
(4) Inverse Proportion

4 pumps empty a swimming pool in **25mins**. Doubling the number of pumps **halves** the time.



(5) Distance Time Graphs

Speed = distance/time



(6) Density

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

$$D = \frac{M}{V}$$

Density is mass divided by volume.

