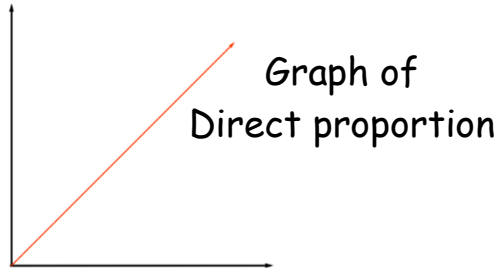


Direct Proportion

MNU 3-08a I can show how quantities that are related can be increased or decreased proportionally and apply this to solve problems in everyday contexts.

If two things are directly proportional it means as one rises the other rises also.

When you buy something the more you buy the more it costs.



Example

If 8 sweeties cost £2.56, how much will 13 cost?

$$8 \text{ Sweeties} = \text{£}2.56$$

$$1 \text{ Sweet} = \text{£}2.56 \div 8 = \text{£}0.32$$

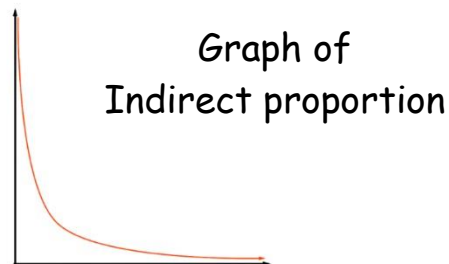
$$13 \text{ Sweeties} = \text{£}0.32 \times 13 = \underline{\text{£}4.16}$$

Indirect proportion

If two quantities are indirectly proportional then one quantity increases and the other decreases.

For example

The more workers on a job the shorter the time



Example

If it takes 5 workers 30 hours to build a wall how long will it take 3 workers?

$$5 \text{ workers} \quad 30 \text{ hours}$$

$$1 \text{ worker} = 5 \times 30 = 150$$

$$3 \text{ workers} = 150 \div 3 = \underline{50 \text{ hours}}$$