Mathematics

Inverse proportion in context

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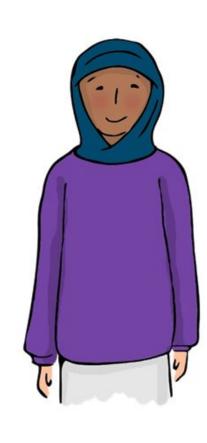
Dr Rim Saada

Try this

Cala fills a fish tank.

She has a range of jugs she can use to carry water to the fish tank.

If Cala uses a 4 litre jug, she will need to use 15 jugfuls.

How many jugfuls are needed if she uses a 6 litre jug?

Independent task

1) Oliver from the Steel Construction Company can build a house by himself in 48 days. If Oliver and Jane work together to build a house of the same size, how long will it take to build the house?

2) It takes 6 hours to fill a pool with water coming from three taps. How long would it take if only two taps are switched on?

3) It usually takes Harry around 7 hours to write two chapters of a novel. How many chapters should he expect to write in 24.5 hours?

Explore

A farmer is building a rectangular pen for his pigs.

The length and width are denoted by l and w.

The area must be 100 m^2.

Explain how you know that l and w are inversely proportional.