

# Solve problems involving direct proportion

1 A shop sells school supplies.

a) Pens are sold in boxes. Each box contains 12 pens.

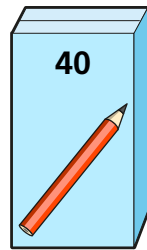


How many pens are there in 5 boxes?

How many pens are there in 50 boxes?

How many pens are there in 200 boxes?

b) Pencils are sold in boxes. Each box contains 40 pencils.

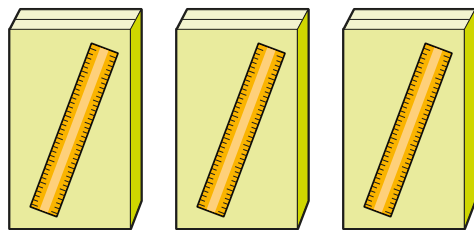


How many pencils are there in 4 boxes?

How many pencils are there in 40 boxes?

How many boxes do you need to buy to have 3,200 pencils?

c) Three boxes of rulers contain 150 rulers altogether.



How many rulers are there in 9 boxes?

How many rulers are there in 27 boxes?

How many boxes do you need to buy to have 1,500 rulers?

How did you work out your answers? Talk about it with a partner.



2 Here is a recipe for 8 cupcakes.

### Cupcakes (makes 8)

- 100 g butter
- 100 g sugar
- 2 eggs
- 1 tsp vanilla extract
- 120 g flour
- 4 tbsp milk

a) Complete these recipe cards.

### Cupcakes (makes 4)

- butter
- sugar
- eggs
- vanilla extract
- flour
- milk

### Cupcakes (makes 24)

- butter
- sugar
- eggs
- vanilla extract
- flour
- milk

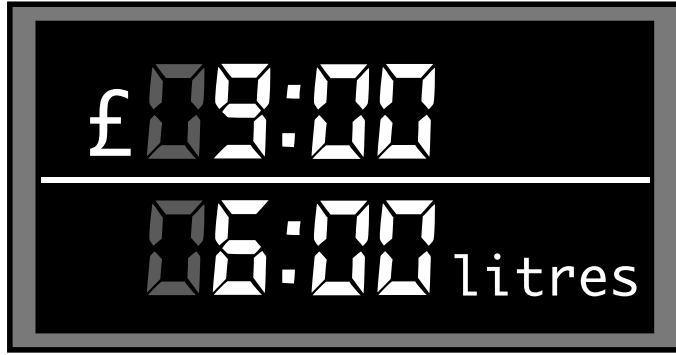
### Cupcakes (makes )

- butter
- sugar
- 16 eggs
- vanilla extract
- 960 g flour
- milk

b) Mo has half a kilogram of butter.  
What is the greatest number of cupcakes he can make using this recipe?

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