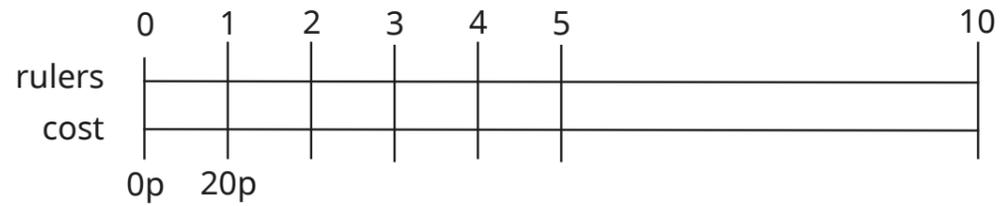


Proportion problems

1 One ruler costs 20p.



a) Complete the double number line.

b) How much do three rulers cost?

 p

c) How much do 10 rulers cost?

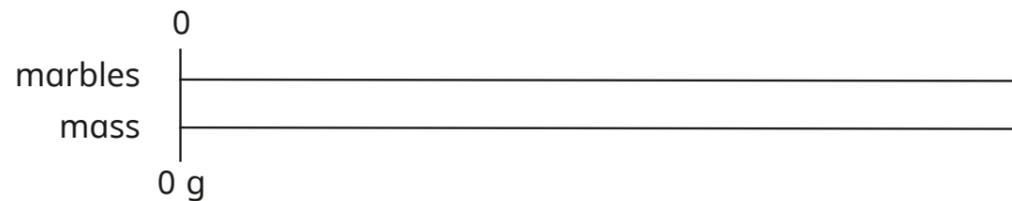
Give your answer in pounds.

 £

What else can you work out?



2 a) Show on the double number line that one marble has a mass of 25 g.



b) What is the mass of five marbles?

 g

3 Six cans of lemonade cost £3



a) Complete the double number line.

b) How much do 12 cans of lemonade cost?

 £

c) How much do 30 cans of lemonade cost?

 £

d) How many cans can be bought with £7.50?

4 Seven pencils cost £3.64

a) How much do four pencils cost?

Use the double number line to help you.


 £

b) How much do eight pencils cost?

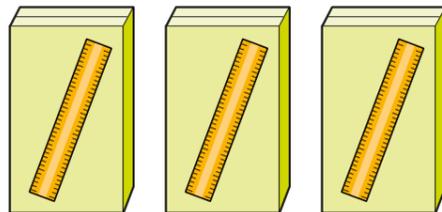
Use the double number line to help you.

 £

- 5 A machine can make 120 nails in 4 seconds.
- a) How many nails does the machine make in 20 seconds?

- b) How many nails does the machine make in one minute?

- 6 A shop sells school supplies.
- Three boxes of rulers contain 150 rulers altogether.



- a) How many rulers are there in 9 boxes?

- b) How many rulers are there in 10 boxes?

- c) 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.



- 7 A car is travelling at a constant speed.
- It travels 10 miles in 15 minutes.
- How far will the car travel in one hour?

 miles

- 8 4 litres of petrol cost £7.40
- How much do 7 litres of petrol cost?

£

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

- 9 The cost to produce 10 key rings is £2.40
- The cost to produce 8 bangles is £2.40
- Key rings are sold in boxes of 200 for £60
- Bangles are sold in boxes of 400 for £140
- How much more profit is made on a box of bangles than on a box of key rings?

£

