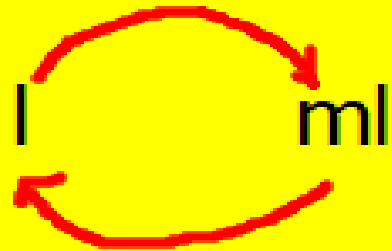


Can you draw the conversion diagrams?

Capacity



Mass

kg g

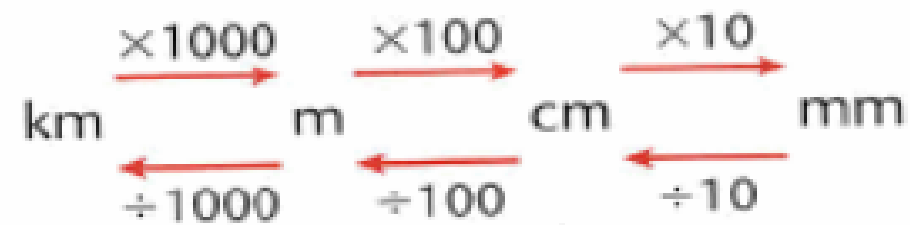
Length

km metres cm mm

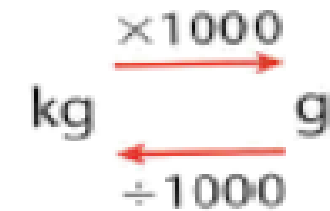
L.O. Solve problems involving conversions.

What are the key conversions we need for today?

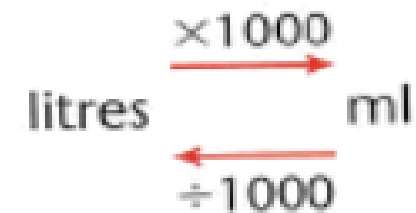
UNITS OF LENGTH



UNITS OF MASS



UNITS OF CAPACITY



In 25 days a sunflower plant grows 84 cm.
What is its mean growth rate per
day in millimetres?



Ewan buys sixteen lollies for £7.20.
How much does each lolly cost?

A petrol pump delivers 595ml every second.
How much is pumped in one minute in litres?

A

- 1 North Street is 1.16 km long. South Street is 329 metres shorter. How long is South Street?
- 2 The total weight of the cans in a box is 3.6 kg. Each can weighs 300 g. How many cans are in the box?
- 3 There are 200 straws in a box. Each straw is 16 cm long. What is the total length of the straws?
- 4 Lena has a 2.5 litre can of paint and a 675 ml can. How much paint does she have altogether?
- 5 A pot noodle weighs 90 g. What is the total weight of 24 pots?
- 6 A tub of ice cream holds 1.2 litres. Sharon eats 450 ml. How much ice cream is left?

**B**

- 1 The perimeter of a football pitch is 286 metres. To warm up for training the players jog round the pitch four times. How far has each player run in kilometres?
- 2 Davina's bottle of perfume holds 0.12 litres. One fifth is used. How much is left in millilitres?
- 3 Ryan's suitcase and contents weigh 24.36 kg. He takes out a guide book weighing 485 g. What is the weight of his luggage now?
- 4 Asha walks 864 metres to school every day. When she transfers to Secondary School her journey will be 2.37 km further. How far is it from Asha's home to her Secondary School?
- 5 Ewan buys sixteen lollies for £7.20. How much does each lolly cost?
- 6 A mug holds 230 ml. A cafe serves fifty mugs of tea. How much tea is served in litres?

C

- 1 A bottle of flavouring holds 38 ml. How many bottles can be filled from 9.5 litres?
- 2 One packet of peanuts weighs 175 g. What is the total weight of 74 packets?
- 3 One staple uses 24 mm of wire. How many staples can be made from 7.8 metres?
- 4 One Brazilian real is worth 28p. Marsha buys reals for £182. How many reals does she buy?
- 5 A petrol pump delivers 595 ml every second. How much is pumped in one minute in litres?
- 6 There are 32 tiles in a pack. They have a total weight of 7.68 kg. What does one tile weigh in grams?
- 7 Each length of rail on a railway track is 24 m long. The track is 51.3 km long. How many lengths of rail have been used to build the railway?

Choose where to start and the questions. Please use jottings and write your answer as a statement.

Perimeter Chase

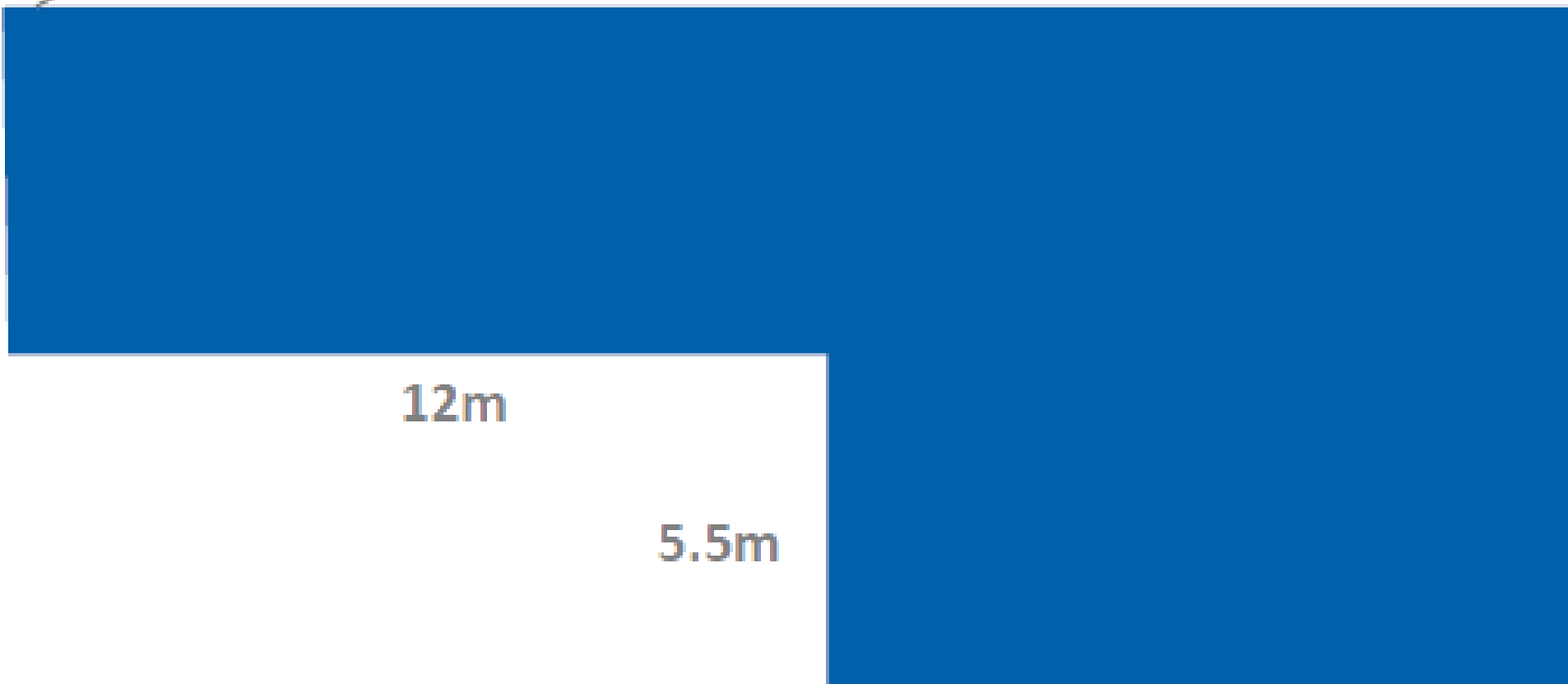
Need: Normal 6 sided dice, pencil, game board (image below)

- A robber has just stolen from this shop (the blue building). The Police arrive just as the robber comes out of the door of the shop. He wants to get to his red and black car to get away but must run all the way around the building to get away from the Police.
- One player plays as the robber and the other player plays as the Police.
- The robber rolls the dice first and moves around the perimeter of the shop according to the number rolled. Make a mark on the perimeter to show where you have got to (use the measurement of each side of the building to estimate where you have got to after each roll).
- The Police roll the dice next to chase the robber around the building.
- Take turns to roll and move around the building, making a mark after each roll.
- If the Police catch up with the robber, the Police win.
- If the robber gets back to his car before begin caught then the robber wins.



24m

5.5m



11m

12m

5.5m

12m

ANSWERS FOR PAGE 108

21

Page 108

TRIZIOM

A	B	C
1 831 m	1 1.144 km	1 250
2 12	2 96 ml - 24	2 12.95 kg
3 32 m	3 23.875 kg	3 325
4 3.175 litres	4 3.234 km	4 <u>650</u>
5 2.16 kg	5 £0.45	5 35.7 litres
6 750 ml	6 11.5 litres	6 240 g
		7 2137.5 (allow 2138)