Convert metric units

1 Complete each bar model and conversion.

a)

1 m	1 m	1 m	1 m	1 m
100 cm	100 cm	100cm	100cm	100cm

5 m = **500** cm

b)

1 kg	1 kg	1 kg	1 kg	1kg	1kg
1,000 g	1,000g	1,000g	1,000g	1,000g	1,000g

6 kg = **6,000** g

c)

1 km	1 km	1 km	0.5 km
1,000 m	1,000m	1,000m	500m

3.5 km = **3,500** m

d)

10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10mm	10mm
1 cm	1 cm	1 cm	1cm	1cm	1cm	1cm	1cm

80 mm = **8** cm

e)

1 m	1 m	0.5 m
100 cm	100 cm	50cm
1,000 mm	1,000mm	500mm

2.5 m = **2,500** mm

f)

1,000 ml	1,000 ml	1,000 ml	1,000 ml	250 ml
1 l	1l	1l	1l	0.25L

4,250 ml = **4·25** l

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2 Convert these measures.

a)

4.5 kg = **4,500** g

b)

30 cm = **0·3** m

c)
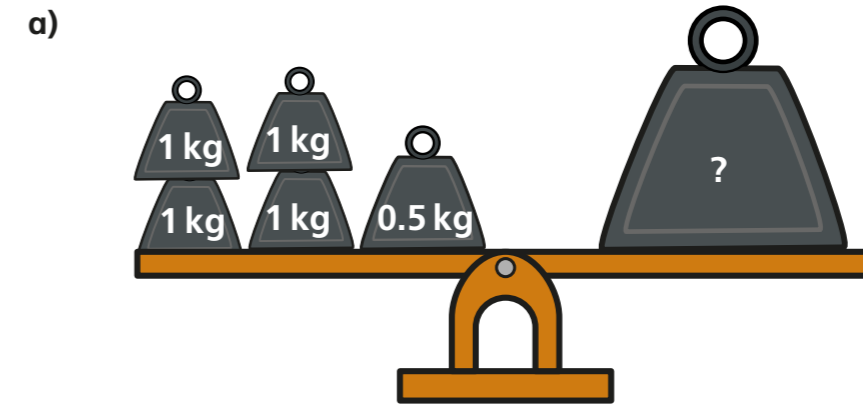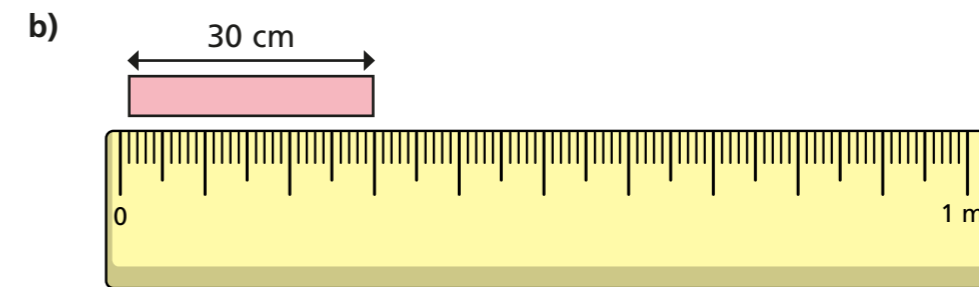
2.5 l = **2,500** ml

3 Work out these conversions.

5 m = | 500 | cm   300 cm = | 3 | m

5.5 m = | 550 | cm   350 cm = | 3·5 | m

5.7 m = | 570 | cm   370 cm = | 3·7 | m

5.07 m = | 507 | cm   307 cm = | 3.07 | m

15.7 m = | 1,570 | cm   1,300 cm = | 13 | m

4 Work out these conversions.

a) 2 kg = | 2,000 | g   **c)** 2,000 m = | 2 | km

3.2 kg = | 3,200 | g   2,800 m = | 2·8 | km

3.02 kg = | 3,020 | g   12,000 m = | 12 | km

b) 5 l = | 5,000 | ml   **d)** 5,200 g = | 5·2 | kg

8.4 l = | 8,400 | ml   5,280 g = | 5·28 | kg

0.35 l = | 350 | ml   5,285 g = | 5·285 | kg

1.35 l = | 1,350 | ml   285 g = | 0·285 | kg

5 A jug contains 2.55 l of juice.

A glass can hold 200 ml.

a) How many full glasses of juice can be poured using the juice in the jug?

| 12 | glasses

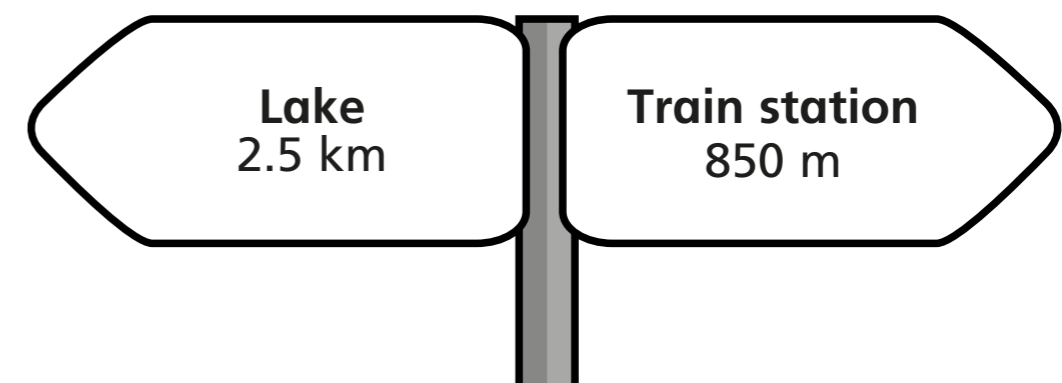**b)** How much juice will be left in the jug? Give your answer in litres.

| 0·15 | l

6 Huan is 167 cm tall.

Kim is 0.15 m taller than Huan.

How tall is Kim in metres?

| 1·82 | m

7

Lake
2.5 km

Train station
850 m

What is the distance between the lake and the train station?

State the units of your answer.

| 3.35 km |