Calculate with Metric Measures

Reasoning and Problem Solving

Jack, Alex and Amir jumped a total of 12.69 m in a long jump competition.

Alex jumped exactly 200 cm further than Jack.

Amir jumped exactly 2,000 mm further than Alex.

What distance did they all jump?

Give your answers in metres.

Jack jumped 2.23 m.
Alex jumped 4.23 m.
Amir jumped 6.23 m.

Dora made a stack of her magazines.
Each magazine on the pile is 2.5 mm thick.
The total height of the stack is 11.5 cm high.
How many magazines does she have in her pile?

There are 46 magazines in Dora's pile.

Each nail weighs 3.85 grams.

There are 24 nails in a packet.

What would be the total mass of 60 packets of nails? Give your answer in kilograms.

5.544 kg

How many packets would you need if you wanted $\frac{1}{2}$ kg of nails?

6 packets

(554.4 g)

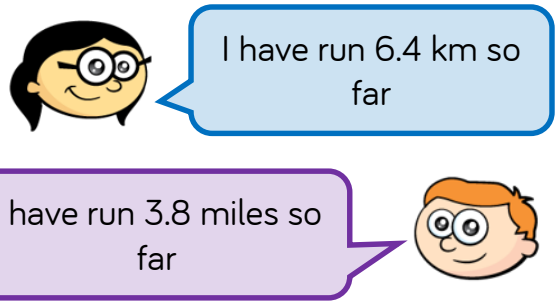
How many grams of nails would be left over?

55.4 g left over

Miles and Kilometres

Reasoning and Problem Solving

Ron and Annie are running a 5 mile race.



Who has the furthest left to run?

Annie has 1 mile left to run, whereas Ron has 1.2 miles left to run.
Ron has the furthest left to run.

The distance between Cardiff and London is 240 km.

A car is travelling at 60 mph.

How long will it take them to get to London from Cardiff?

240 km ≈ 150 miles
$150 \div 60 = 2\frac{1}{2}$ hours
Or
60 miles ≈ 96 km
$240 \div 96 = 2\frac{1}{2}$ hours

Mo cycles 45 miles over the course of 3 days.

On day 1, he cycles 16 km.

On day 2, he cycles 10 miles further than he did on day 1

How far does he cycle on day 3?

Give your answer in miles and in kilometres.

On day 1 he cycles 16 km / 10 miles.

On day 2 he cycles 32 km / 20 miles.

On day 3 he cycles 24 km / 15 miles.