

Diving into Mastery

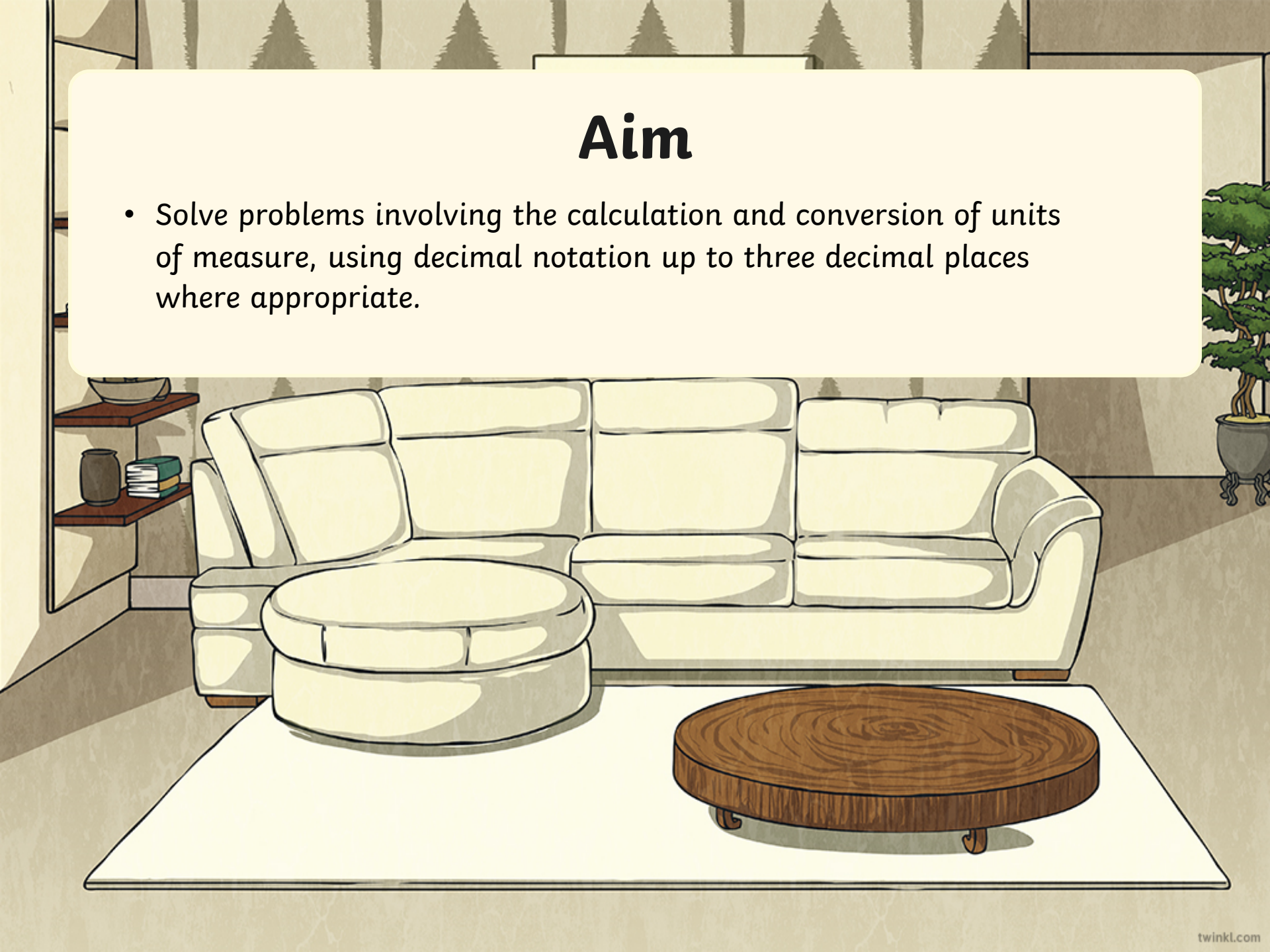


Calculate with Metric Measures

twinkl

Aim

- Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.





Six 360ml cups are filled from a 2.3l flask of coffee. How much coffee is now left in the flask? Give your answer in litres.

Flask = 2.3l						
Cup = 360ml	Cup = 360ml	Cup = 360ml	Cup = 360ml	Cup = 360ml	Cup = 360ml	0.14l

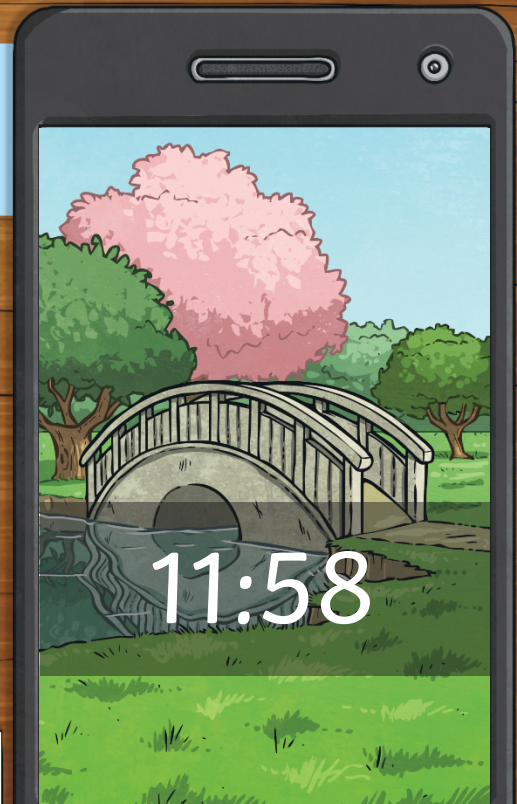
How much is left?





Finlay has a piece of string which measures 0.9m. He cuts off a piece measuring 15cm and then cuts the remaining string into three equal pieces. How long is each piece?

Three children record their answer to this problem:





What is the total mass in kilograms of the contents of the rucksacks?

2.78kg

Mass of rucksack contents:

0.35kg = **Rucksack C**

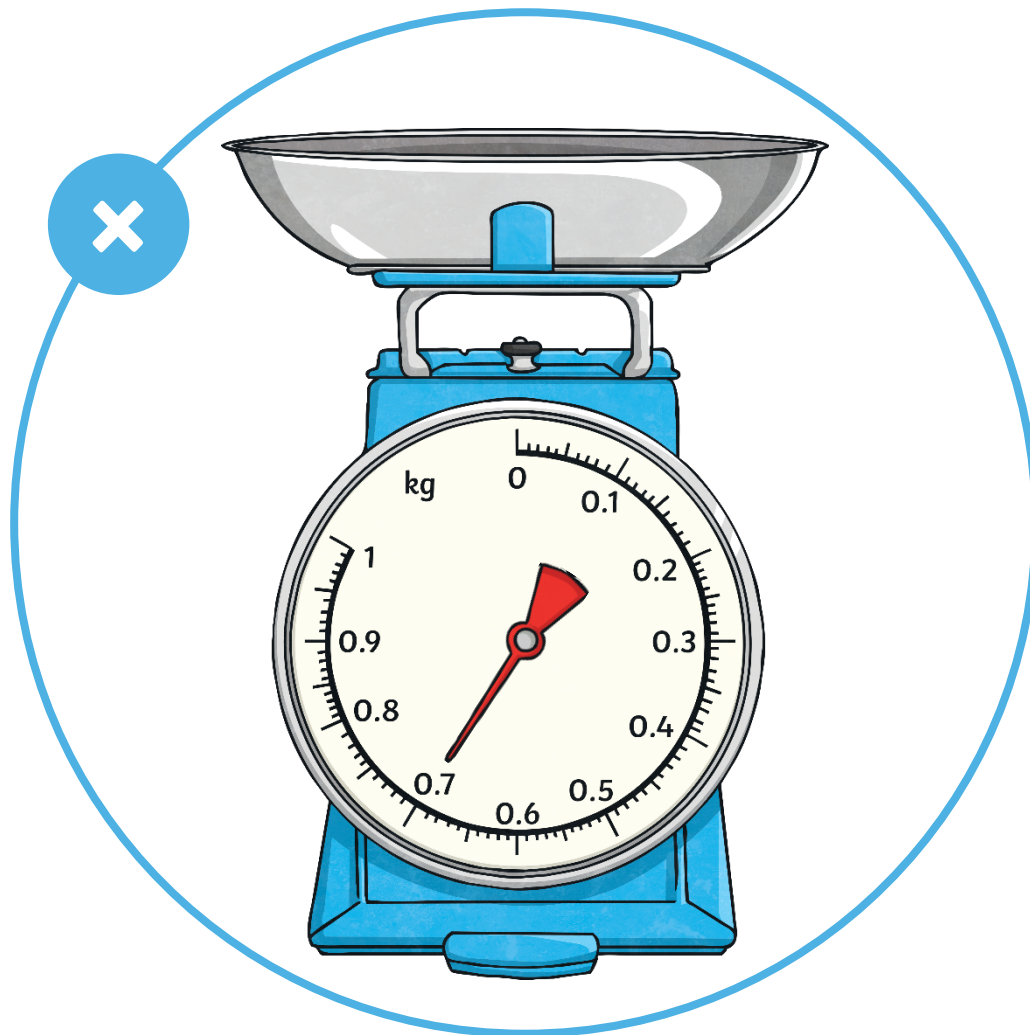
0.8kg = **Rucksack A**

80g = **Rucksack B**

0.7kg = **Rucksack E**

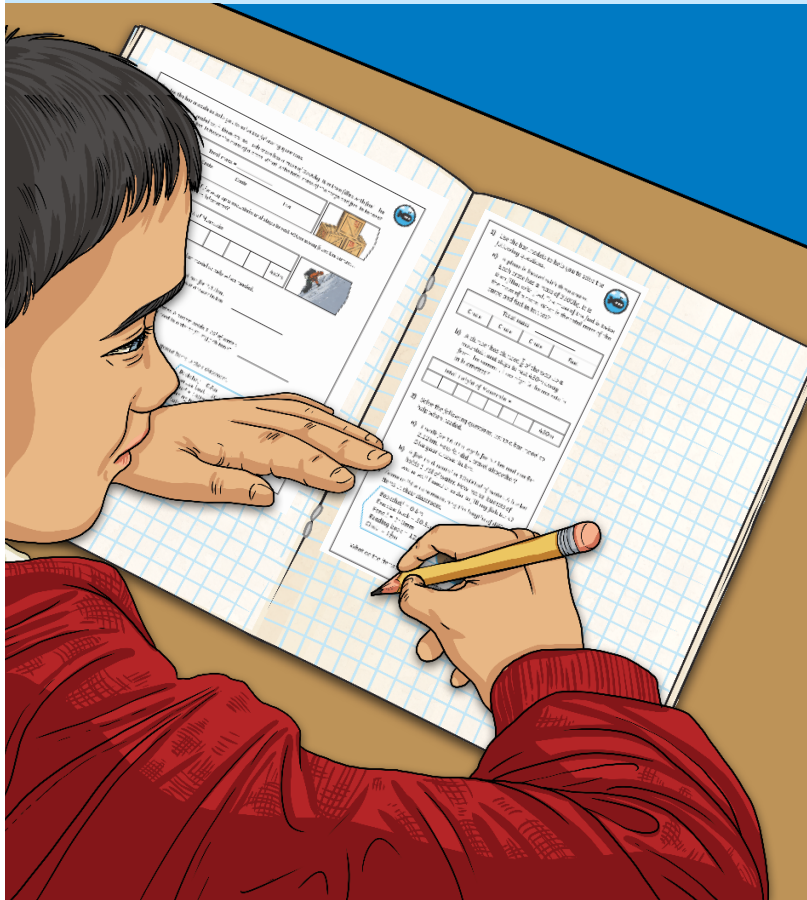
850g = **Rucksack D**

scale



Calculate with Metric Measures

Dive in by completing your own activity!



1) Use the bar models to help you solve the following questions.

a) A plane is loaded with three crates. Each crate has a mass of 300kg. It is then filled with fuel. The mass of the fuel is twice the mass of a crate. What is the total mass of the cargo and fuel in tonnes?

Total mass = _____			
Crate	Crate	Crate	Fuel

b) A climber has climbed $\frac{2}{5}$ of the way up a mountain and stops to rest 450m away from the summit. How high is the mountain in kilometres?

Total Height of Mountain = _____				
				450m

2) Solve the following questions, using a bar model to help when needed.

a) I walk for 3650m, cycle for 5.4km and run for 2.3km. How far did I travel altogether? Give your answer in km. _____

b) A fish tank contains 10500ml of water. A bucket holds 1.75l of water. How many buckets of water will I need in order to fill my fish tank? _____

3) Some children are measuring the lengths of different items in their classroom. What do the items measure altogether in metres?

Bookshelf = 0.8m
Exercise book = 30.5cm
Pencil = 140mm
Reading book = 32.5cm
Chair = $\frac{1}{2}$ m

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