

Maths - Year 5

Measurement 7: Solving problems involving time, money and measures

Key Vocabulary

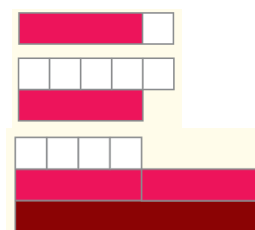
Exchange rate	The value of one currency for the purpose of conversion to another.
Currency	A system of money in general use in a particular country.
Budget	An allocated maximum amount of money to be spent.

Mathematical Skills

- Explore and interpret information from a variety of sources and choose strategies, methods and operations appropriate to the problem.
- Identify more than one way of solving a problem, where appropriate.
- Convert between metric units of length, mass, capacity or volume.
- Know the relationship and convert between different units of time, and describe elapsed time in different ways.
- Understand that currencies are different units of money and use a line graph to convert between them.
- Understand the relationship between a cube number and the volume of a cube.

Mathematical Methods

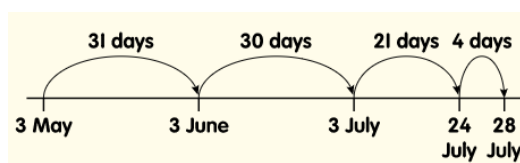
- Scaling quantities e.g. converting a recipe for 4 people to a recipe for 5 people.



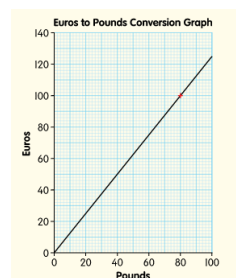
$1\frac{1}{4}$ large onions
 $2\frac{1}{2}$ potatoes
 125 ml water
 25 g ginger
 25 ml garlic paste
 37.5 ml vegetable oil
 275 g chopped tomatoes
 2.5 g turmeric
 6.25 g cumin
 18.75 g curry powder
 22.5 g fresh coriander
 $\frac{5}{8}$ red chilli
 100 g cashew nuts
 375 g rice

- Converting units of time.

Date	Time from 3 May	
	Days	Equivalent
3 May	0	
3 June	31	1 month
3 July	61	2 months
24 July	82	2 months 3 weeks
28 July	86	2 months 3 weeks 4 days



- Using a line graph to convert between currencies.



- Solving problems involving money, including currency conversions e.g. which is the best deal for bike hire?

The Campsite Holiday Co.

$$£13.25 \times 2 = £26.50$$

$$£8.75 \times 3 = £26.25$$

$$26.50$$

$$+26.25$$

$$\hline £52.75$$

$$\hline$$

Clifden Cycle Hire

$$(€5 \times 2) + (€2 \times 6 \times 2) = €10 + €24 = €34$$

$$(€3 \times 3) + (€1.50 \times 6 \times 3) = €9 + €27 = €36$$

$$34$$

$$+36$$

$$\hline €70$$

$$\hline$$

Connemara Bikes

$$€15.50 \times 2 = €31.00$$

$$€10.50 \times 3 = €31.50$$

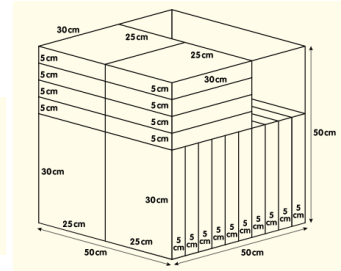
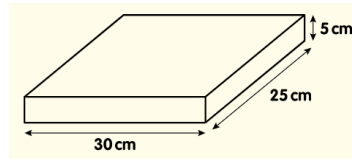
$$31.00$$

$$+31.50$$

$$\hline €62.50$$

$$\hline$$

- Solving problems involving volume and capacity e.g. working out how to pack 30 construction sets into the correct container. Either A 64 litres, B 125 litres, C 216 litres, D 343 litres.



Can you..?

- How many Australian dollars would get for a) £2 b) £100



- Which offer is the cheapest if you buy 6 bottles?



- Calculate the volume of the cuboid.

