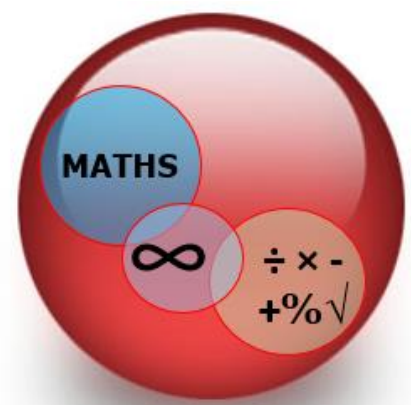
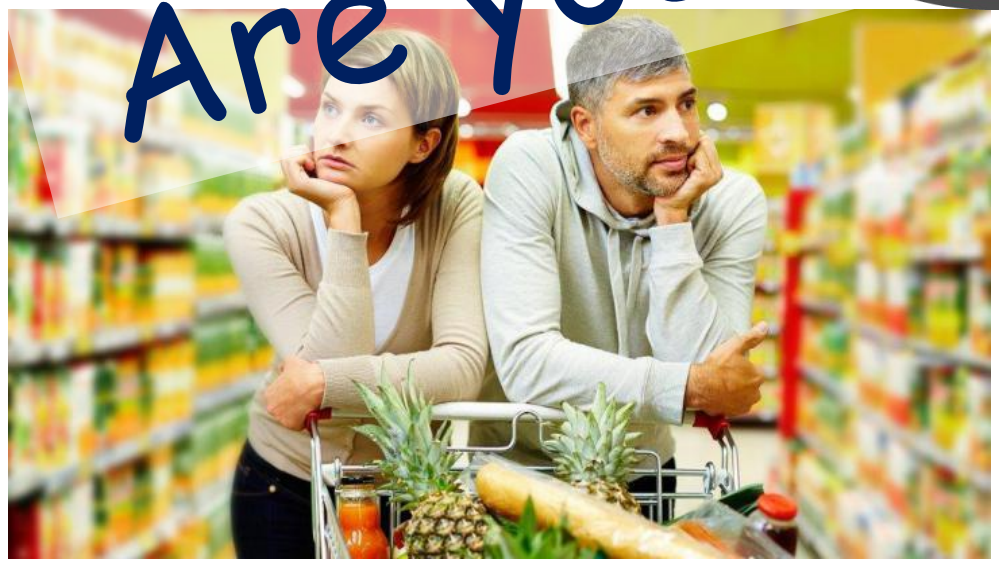


Mathematical Skills Across The Curriculum



Are you a smart shopper ?



- When deciding upon a purchase it is always advisable to compare similar information on the product or service being provided, compare the terms on offer and of course compare the price of an item.
- Ultimately the decision reached is determined by comparing many different things but one of the main factors will be the price.





1.2kg for £3.89



700g for £2.14

What are the different things you need to take into account before solving this problem?

What are the units? Are they same?
Let's first convert the units:

$$1 \text{ kg} = 1000\text{g} \quad \text{£}1 = 100\text{p}$$

$$1.2 \text{ kg} = 1200\text{g} \quad \text{£}3.89 = 389\text{p}$$
$$\text{£}2.14 = 214\text{p}$$

Which is the Best Buy?

It is sometimes easier to solve such problems if you can work out the price per unit and in this case per gram.

Task: Calculate the price per gram?

1.2kg
for
£3.89



700g
for
£2.14

$$\begin{array}{l} 1200g = 389p \\ \div 1200 \quad \div 1200 \\ \hline 1g = 0.324p \end{array}$$

$$\begin{array}{l} 700g = 214p \\ \div 700 \quad \div 700 \\ \hline 1g = 0.305p \end{array}$$

This is less money per gram, so it is the best buy

Hence it is cheaper to buy 700g for £2.14.



1.2 kg bag
for £1



700g bag
for £0.77

Task:
Decide in each of these
questions, which product is the
best value for money.



9 pack for £4.48



4 pack on offer
2 for £3.50

Laundry detergent is sold in three different quantities.



2 kg costs
£3.78



5 kg costs
£8.60



9 kg costs
£16.92

Task: Which is the best value for money?

Which supermarket has the best buy?

ASDA

700g for
£1.99



Sainsbury's

570g for £1.95

TESCO


324g for £1.20



MORRISONS

910g for £2.49

Answers:

1. Carrots → 1.2 kg bag @ £1.00
2. Andrex toilet roll → 4 pack, 2 for £3.50
3. 5 kg detergent costs £8.60
4.  910g for £2.49

MORRISONS