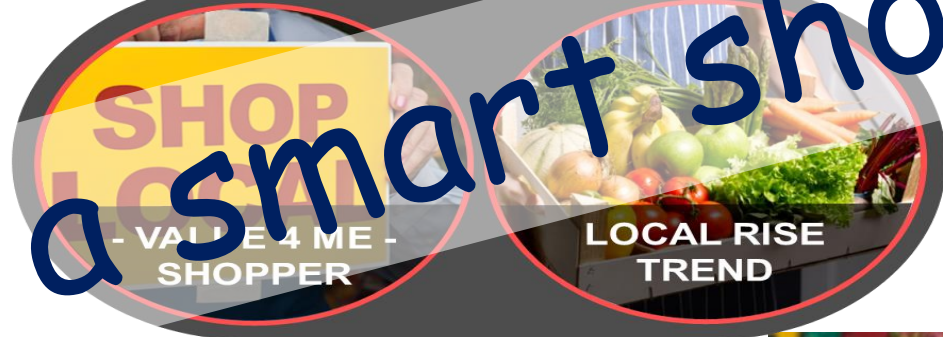
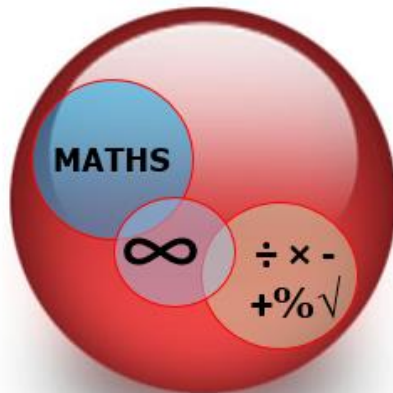
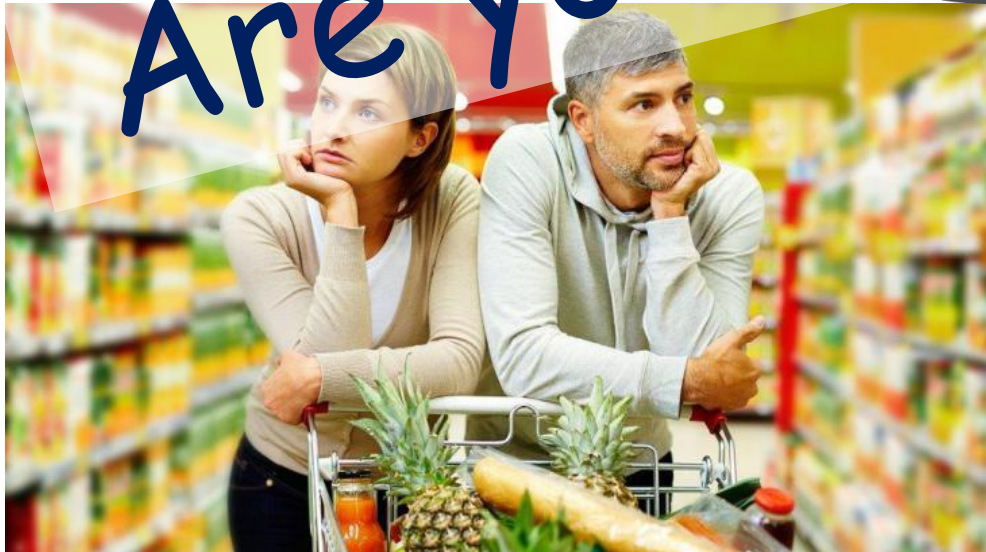


# Mathematical Skills Across The Curriculum



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:

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

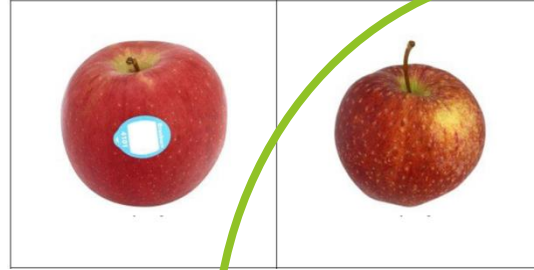
$$1.2 \text{ kg} = 1200\text{g} \quad \text{£}3.89 = 389\text{p}$$
$$\text{£}2.14 = 214\text{p}$$

## 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

## M

## 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