

# Value for money

Next

Date: \_\_\_\_\_

## Value for money

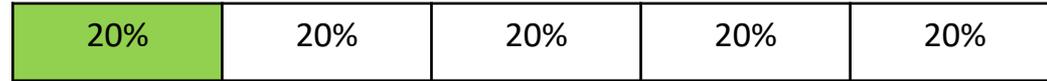
Sit down with a pen and paper.



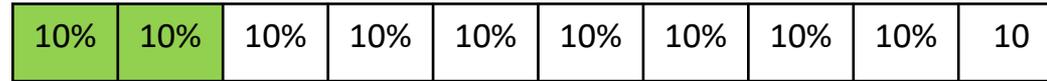
Calculator allowed

# Starter

1 10% of £250 =



2 5% of 600ml =



3 20% of €1200 =



4 10% of 20% of 60 =

5 If 5% is £20 what is 100%?

# Answers

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1 10% of £250 =  $250 \div 10 = \text{£}25$

2 5% of 600ml =  $600 \div 10 = 60\text{ml}$        $60 \div 2 = 30\text{ml}$

3 20% of €1200 =  $1200 \div 10 = \text{€}120$        $120 \times 2 = \text{€}240$

4 10% of 20% of 60 =  $20\% \text{ of } 60 = 12$        $10\% \text{ of } 12 = 1.2$

5 If 5% is £20 what is 100%?       $10\% = \text{£}40$        $100\% = \text{£}400$



## Value for money:

Finding the cheapest for

- the same quantity
- per item
- the same period of time





## Units of measure

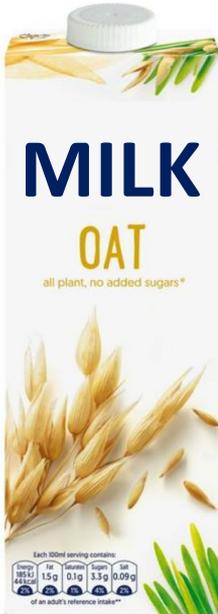
**90p/kg**

**90 pence per kilogram**

**p/kg**



**Cost ÷ Weight**



**£7 for 5**



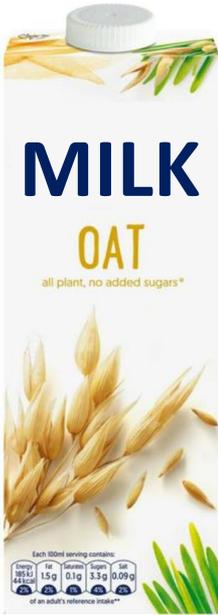
**£6.00 for 4**



**£9.60 for 6**

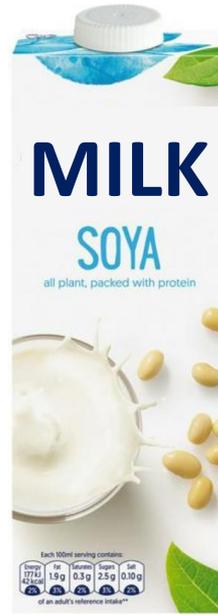
What is the best value for money?

We need to work out the cost per item.



**£7 for 5**

$$\text{£7} \div 5 = \text{£1.40}$$



**£6.00 for 4**

$$\text{£6} \div 4 = \text{£1.50}$$



**£9.60 for 6**

$$\text{£9.60} \div 6 = \text{£1.60}$$

**Oat milk is the cheapest at £1.40 per carton.**

# Questions

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1 What does **80p/kg** mean?

2 What does **£1.75/unit** mean?

3 How much does the bag of potatoes weigh?

4 What is the price per kilogram for the Maris Piper potatoes?

5 Which potatoes are cheaper?



Baking Potatoes  
Loose

**80p/kg** 80p / kg



Maris Piper  
Potatoes 2.5kg

**£1.75/unit** 70p / kg

# Answers

1 What does **80p/kg** mean?  
**80 pence per kilogram**

2 What does **£1.75/unit** mean?  
**£1.75 for the bag,**  
**unit means one item (bag)**

3 How much does the bag of potatoes weigh?  
**2.5kg**

4 What is the price per kilogram for the Maris Piper potatoes?  
 **$£1.75 \div 2.5 = £0.70/kg$  or  $70p/kg$**

5 Which potatoes are cheaper?  
**The bag of potatoes are cheaper.**



Baking Potatoes  
Loose

**80p/kg** 80p / kg



Maris Piper  
Potatoes 2.5kg

**£1.75/unit** 70p / kg

Price per weight is often on the labelling.

What is the **cost of a kilogram** of mushy peas?



300g

Smart Price  
Mushy Peas

**£0.15**

What is the cost of a kilogram of mushy peas?

We can use ratios again to solve this.

Cost : Weight

$$\begin{array}{l} \div 3 \left( \begin{array}{l} \text{£}0.15 : 300\text{g} \\ \text{£}0.05 : 100\text{g} \end{array} \right) \div 3 \\ \times 10 \left( \begin{array}{l} \text{£}0.50 : 1\text{kg} \end{array} \right) \times 10 \end{array}$$

**50p/kg**



300g

Smart Price  
Mushy Peas

**£0.15**

## Note

Remember p/kg means cost divided by price so another way of getting the answer would be  **$0.15 \div 0.3 = \text{£}0.50/\text{kg}$**

$$\text{Price (£)} \div \text{Weight (kg)} = \text{£/kg}$$

# Questions

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375g

Egg Pasta  
Lasagne Sheets

£1.55



250g

Cannelloni  
Egg Pasta

£1.55



500g

Whole Wheat  
Spaghetti

£1.00

1 What is the price per kg of the whole wheat spaghetti?

2 What is the price per kg of the Cannelloni?

3 What is the price per kg of the Lasagne sheets?



375g

Egg Pasta  
Lasagne Sheets

**£1.55**

(£4.13/kg)



250g

Cannelloni  
Egg Pasta

**£1.55**

(£6.20/kg)



500g

Whole Wheat  
Spaghetti

**£1.00**

(£2.00/kg)

1 What is the price per kg of the whole wheat spaghetti?

$$\times 2 \left( \begin{array}{l} 500\text{g} : \text{£}1 \\ 1\text{kg} : \text{£}2 \end{array} \right) \times 2$$

2 What is the price per kg of the Cannelloni?

$$\times 4 \left( \begin{array}{l} 250\text{g} : \text{£}1.55 \\ 1\text{kg} : \text{£}6.20 \end{array} \right) \times 4$$

3 What is the price per kg of the Lasagne sheets?

$$\text{£}1.55 \div 0.375 \approx \text{£}4.13/\text{kg}$$

# Try first

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Oil is sold in two sizes.

Which size is better value for money?



**£9**



**£50**

**Now 15% off**

Here are three offers on computers.

**What is the best deal?**

## Tablet World

Usual price £170

**Now 20% off**

## IT Supplies

Usual price £180

**Now  $\frac{1}{4}$  off**

## PC Heaven

**Special offer**

Pay £23 a month  
for 6 months



Three shops sell the same washing machine.

What is the best deal?

## Shop A



**£150** deposit

Plus

**£60 a month** for 6 months

## Shop B



Usual price **£600**

Now **20% off**

## Shop C



Usual price **£720**

Now  $\frac{1}{4}$  off

Oil is sold in two sizes.

**Which size is better value for money?**

To compare the prices we have to make them the same quantity of oil.

What is **15% off**?

**10% = £5**

**5% = £2.50**

**15% = £7.50**

What is **15% off**?

**£50 - £7.50 = £42.50**



**£9**

x 5

5 litres = **£45**



**£50**

**Now 15% off**

5 litres = **£42.50**

The price is for the same quantity so we can now compare prices.

Here are three offers on computers.

What is the best deal?

## Tablet World

Usual price £170

Now 20% off

What is 20% off?

$$10\% = \text{£}17$$

$$20\% = \text{£}34$$

$$\text{£}170 - \text{£}34 = \text{£}136$$

## IT Supplies

Usual price £180

Now  $\frac{1}{4}$  off

What is a quarter off?

$$180 \div 4 = \text{£}45$$

$$\text{£}180 - \text{£}45 = \text{£}135$$

## PC Heaven

Special offer

Pay £23 a month  
for 6 months

$$\text{£}23 \times 6 = \text{£}138$$



We want to compare the price per item.

We can now see the best deal is IT Supplies.

Three shops sell the same washing machine. **What is the best deal?**  
We want to compare the **price per item**.

## Shop A



**£150 deposit**

Plus

**£60 a month** for 6 months

$$£60 \times 6 = £360$$

$$£150 + £360 = \mathbf{£510}$$

## Shop B



Usual price **£600**

Now **20% off**

What is **20% off**?

$$10\% = £60$$

$$20\% = £120$$

$$£600 - £120 = \mathbf{£480}$$

## Shop C



Usual price **£720**

Now  $\frac{1}{4}$  off

What is a **quarter off**?

$$720 \div 4 = £180$$

$$£720 - £180 = \mathbf{£540}$$

We can now see the best deal is **Shop B**.

# End of the lesson

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**Well done for completing the lesson.**



## Reflections

A large, empty rounded rectangular box with a black border, intended for students to write their reflections.