

Sharing in a Given Ratio

Today we are learning...

How to share an amount in a given ratio.

I will know if I have been successful if...

I can find how many shares there are in total.

I can divide to find the value of one share.

I can multiply to share an amount in the given ratio.



Sharing in a Given Ratio

Three schools share a new textbook in the ratio of

$$A:B:C = 2:4:5.$$

There are 330 new textbooks.

How many will textbooks will each schol recieve?

Add

Divide

Multiply

Sharing in a Given Ratio

A recipe for a carrot cake requires sugar, flour, butter and carrots to be made in the ratio of...

$$S:F:B:C = 1 : 2 : 3 : 7$$

The cake in total will weigh 1.95kg. What quantities of each ingredient will I need?

Add

Divide

Multiply

Sharing in a Given Ratio

The number of buses on three different routes are in the ratio of...

$$A: B: C = 1 : 4 : 8$$

Today there are 156 buses in service. How many buses are on each route?

Add

Divide

Multiply

Simplifying Ratios

We simplify ratios in a similar way we simplify fractions...

$$\frac{3}{12} = \frac{1}{4} \text{ so } 3:12 = 1:4$$

$$\frac{12}{18} = \frac{2}{3} \text{ so } 12:18 = 2:3$$

Bonus Question

ASDA sell three different types of bottled water. The prices of the bottled water are in the ratio of...

$$A:B:C = 1 : 3 : 4$$

The cheapest bottle of water is 20p.

a) What is the price of each bottle of water?

b) In one day they sell 200 bottle A's, 150 bottle B's and 100 bottle C's. How much money do they make?



Bonus Question

ASDA sell three different types of bottled water. The prices of the bottled water are in the ratio of...

$$A:B:C = 1 : 3 : 4$$

The cheapest bottle of water is 20p.

a) What is the price of each bottle of water?

$$A = 20p, B = 60p, C = 80p$$

b) In one day they sell 200 bottle A's, 150 bottle B's and 100 bottle C's. How much money do they make? £210

Foreign Currency

Today we are learning...

How to convert between British Pounds and other currencies.

I will know if I have been successful if...

I understand what an exchange rate means.












I can convert Pounds into othe currencies.

I can convert back from other currencies into Pounds.




National 5 Numeracy - Ratios

Exchange Rates - What are they?

Currency	Sell rate
 Euro (EUR)	1.1241
 US Dollar (USD)	1.3729
 Australian Dollar (AUD)	1.7999
 Canadian Dollar (CAD)	1.7588
 Singapore Dollar (SGD)	1.8083
 UAE Dirham (AED)	4.9991
 Argentine Peso (ARS)	N/a
 Bahamian Dollar (BSD)	1.3176
 Bahraini Dinar (BHD)	0.5044
 Barbadian Dollar (BBD)	2.6424
 Belizean Dollar (BZD)	2.5387

$£1 = €$
 $£1 = \$$

Pounds into Euros

Currency	Sell rate
 Euro (EUR)	1.1241


I am going on holiday to France and exchange £300 into Euros.

How many Euros will I get?

$$£1 = €1.1241$$
$$£300 = €337.23$$

National 5 Numeracy - Ratios

Euros to Pounds

Currency	Sell rate
 Euro (EUR)	1.1241

After I return from holiday I still have 60 Euros.

How many pounds will I get if I change them back?

$$\begin{aligned} €60 &\div 1.1241 \\ &= \pounds 53.37 \end{aligned}$$

Pounds to Dirham

 UAE Dirham (AED)	4.9991
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I am going on holiday to the UAE and exchange £600 into Dirham.

How many Dirham will I get?

$$\begin{aligned} \pounds 600 &\times 4.9991 \\ &= 2999.46 \text{ D} \end{aligned}$$

Dirham to Pounds

 UAE Dirham (AED)

4.9991

When I return I still have 207 Dirham.
The bank only exchange Dirham in multiples of 10.
How many Pounds will I get if I change them back?

$$207 \rightarrow 200$$

$$200 \div 4.9991$$
$$= \underline{\underline{\pounds 40.00}}$$