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AQA GCSE Maths: Higher



Exchange Rates & Best Buys

Contents

- * Exchange Rates
- ★ Best Buys

Exchange Rates

Your notes

Exchange Rates

Exchange rates are used to compare and convert between different currencies.

How do I convert between currencies?

- Start by writing the exchange rate
 - £1.00 (GBP) = €1.17 (EUR)
- To convert **from GBP to EUR**, **multiply** by 1.17
 - Because 1.00 x 1.17 = 1.17
- To convert **from EUR to GBP**, **divide** by 1.17
 - Because 1.17 ÷ 1.17 = 1.00
- To find £28 in Euros
 - 28 × 1.17 = €32.76
- To find €75 in Pounds
 - $75 \div 1.17 = £64.10$ (to the nearest penny)



Worked Example

On a particular day, the exchange rate from US Dollars to Japanese Yen is:

1 US Dollar = 155.62 Japanese Yen

and the exchange rate from Australian Dollars to Japanese Yen is:

1 Australian Dollar = 102.09 Japanese Yen

An item costs 40 US Dollars.

Find the cost of the item in Australian Dollars.

The first exchange rate is 1 US Dollar = 155.62 Japanese Yen So to convert from US Dollars to Japanese Yen, multiply by 155.62

 $40 \times 155.62 = 6224.80$ Japanese Yen



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The second exchange rate is 1 Australian Dollar = 102.09 Japanese Yen So to convert from Japanese Yen to Australian Dollars, divide by 102.09

6224.80 ÷ 102.09 = 60.9736... Australian Dollars

Round to 2 decimal places as we are dealing with money

60.97 Australian Dollars



Best Buys

Your notes

Best Buys

If there is more than one deal on offer, how do I work out which deal is best?

- Find the price of 1 item (by dividing the number of items and total price by the same scale factor)
 - E.g. If 3 tins cost £1.20 then 1 tin costs 40p (by dividing both quantities by 3)
- Compare the prices of 1 item from each shop / deal to see which is cheaper
 - The cheaper deal is the **better value for money**
 - E.g. 1 tin costs 40p from shop A and 45p from shop B
 - 1 tin at shop A is cheaper than at shop B
 - Shop A is therefore the better value for money
- For more complicated deals, write down **each line** of working clearly



Worked Example

Two deals for buying caps are given below:

3 caps for £22.50 from Baseball World 5 caps for £36 from Head Hut

At which shop are the caps better value? You must show your working.

Find the cost of 1 cap from Baseball World (by dividing £22.50 by 3)

 $22.50 \div 3 = £7.50$ for 1 cap from Baseball World

Find the cost of 1 cap from Head Hut (by dividing 36 by 5)

 $36 \div 5 = £7.20$ for 1 cap from Head Hut

Compare the price of 1 cap from each shop to see which is cheapest

£7.20 is cheaper than £7.50



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Write down, with reason, the shop with better value

1 cap from Head Hut costs £7.20 and 1 cap from Baseball World costs £7.50 £7.20 is cheaper than £7.50 so Head Hut is better value

