

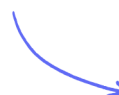
## Calculator Questions

# Time, Currency & Conversions

Time / Money Calculations / Exchange Rates

|                      |            |
|----------------------|------------|
| Easy (8 questions)   | /14        |
| Medium (8 questions) | /19        |
| Hard (9 questions)   | /33        |
| <b>Total Marks</b>   | <b>/66</b> |

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# Easy Questions

- 1 Thor changes 40 000 Icelandic Krona into dollars when the exchange rate is 1 krona = \$0.0099.

Work out how many dollars he receives.

\$ .....

**(1 mark)**

- 2 Rashid changes 30 000 rupees to dollars when the exchange rate is \$1 = 68.14 rupees.

How many dollars does he receive?

\$ .....

**(2 marks)**

- 3 When the local time in Athens is 09 00, the local time in Berlin is 08 00.

A plane leaves Athens at 13 15.

It arrives in Berlin at 15 05 local time.

Find the flight time from Athens to Berlin.

..... h ..... min

**(1 mark)**

- 4 Karel changed \$300 into 3891 Namibian dollars.

Complete the statement.

\$1 = ..... Namibian dollars

**(1 mark)**

- 5 Adele changes \$306 into euros (€) when the exchange rate is €1 = \$1.125.

Calculate the number of euros she receives.

€ .....

**(2 marks)**

- 6 Barbara spends a total of \$17.56 on 5 kg of apples and 3 kg of bananas.  
Apples cost \$2.69 per kilogram.

Calculate the cost per kilogram of bananas.

\$ .....

**(3 marks)**

- 7 A shop sells dress fabric for \$2.97 per metre.  
A customer buys 9 metres of this fabric.

Calculate the change he receives from \$50.

\$ .....

**(2 marks)**

- 8 Mehdi buys a burger for €4.99.

Work out the cost of the burger in USD (\$) given that \$1 = €0.8557.

**(2 marks)**

# Medium Questions

- 1 A new model locomotive costs \$64.

Calculate the cost of the locomotive in rupees when the exchange rate is 1 rupee = \$0.0154.

Give your answer correct to the nearest 10 rupees.

..... rupees

(2 marks)

- 2 A tourist changes \$500 to euros (€) when the exchange rate is €1 = \$1.0697.

Calculate how many euros he receives.

€ .....

(2 marks)

- 3 Marianne sells photos.

The selling price of each photo is \$6.

Calculate the selling price of a photo in euros (€) when the exchange rate is €1 = \$1.091.

€ .....

(2 marks)

- 4 The Muller family are on holiday in New Zealand.  
They change some euros (€) and receive \$1962 (New Zealand dollars).  
The exchange rate is €1 = \$1.635.

Calculate the number of euros they change.

€ .....

**(2 marks)**

- 5 A dressmaker charges \$35 or 2300 rupees to make a dress.

Calculate the difference in price when the exchange rate is 1 rupee = \$0.0153.  
Give your answer in rupees.

..... rupees

**(2 marks)**

- 6 Ben goes on holiday to Hong Kong.

In Hong Kong, Ben sees a camera costing HK\$3179.55 In London, an identical camera costs £285

The exchange rate is £1 = HK\$12.30

Ben buys the camera in Hong Kong.

How much cheaper is the camera in Hong Kong than in London?

**(3 marks)**

**7** Margaret is on holiday in France.

She buys an English newspaper

The cost of the newspaper is 5 euros.

In England, the cost of the same newspaper is £2.50

The exchange rate is £1 = 1.16 euros.

Work out the difference between the cost of the newspaper in France and the cost of the newspaper in England.

**(3 marks)**

**8** Colin is on holiday in France.

He buys a wallet.

The wallet costs 31 euros.

In London a wallet costs £23.50

The exchange rate is £1 = 1.34 euros.

Compare the cost of the wallet in France with the cost of the wallet in London.

**(3 marks)**

# Hard Questions

1 These are the opening times for a museum.

|                     |                |
|---------------------|----------------|
| Monday to Friday    | 0900 to 1700   |
| Saturday and Sunday | 10 00 to 16 00 |

During opening hours the museum has 4 security guards working.  
Each guard works a maximum of 30 hours each week.

Work out the smallest number of guards needed each week.

(4 marks)

2 A chef buys some cheese from France.  
200g of cheese costs 3.45 euros.  
The exchange rate is \$1 = 0.84 euros.

Work out the maximum mass of cheese the chef can buy with \$150.  
Give your answer in kilograms, correct to 1 decimal place.

..... kg

(4 marks)

- 3** On holiday Maria paid 2.25 euros for a newspaper when the exchange rate was \$1 = 0.9416 euros.  
At home Maria paid \$1.13 for the newspaper.  
Calculate the difference in price.  
Give your answer in dollars, correct to the nearest cent.

\$ .....

**(3 marks)**

- 4** In the UK, petrol cost £1.24 per litre. In the USA, petrol cost 3.15 dollars per US gallon.

1 US gallon = 3.79 litres

£1 = 1.47 dollars

Was petrol cheaper in the UK or in the USA?

**(4 marks)**

**5** Identical pairs of boots are sold in London, in Geneva and in Paris.

These boots have a price of

£115 in London

189 Swiss francs in Geneva

174 euros in Paris

The exchange rates are

£1 = 1.39 Swiss francs

£1 = 1.27 euros

Are the boots the best value for money in London or in Geneva or in Paris?  
You must show how you get your answer.

**(3 marks)**

**6** In London, 1 litre of petrol costs 108.9p  
In New York, 1 US gallon of petrol costs \$2.83

1 US gallon = 3.785 litres

£1 = \$1.46

In which city is petrol better value for money, London or New York?  
You must show your working.

**(3 marks)**

**7** Three companies sell the same type of furniture.

The price of the furniture from Pooles of London is £1480

The price of the furniture from Jardins of Paris is €1980

The price of the furniture from Outways of New York is \$2250

The exchange rates are

$$£1 = €1.34$$

$$£1 = \$1.52$$

Which company sells this furniture at the lowest price?

You must show how you get your answer.

**(3 marks)**

**8 (a)** Asif is going on holiday to Turkey.

The exchange rate is  $£1 = 3.5601$  lira.

Asif changes £550 to lira.

Work out how many lira he should get.

Give your answer to the nearest lira.

**(2 marks)**

**(b)** Asif sees a pair of shoes in Turkey.

The shoes cost 210 lira.

Asif does not have a calculator.

He uses  $£2 = 7$  lira to work out the approximate cost of the shoes in pounds.

Use  $£2 = 7$  lira to show that the approximate cost of the shoes is £60.

(2 marks)

- (c) Is using £2 = 7 lira instead of using £1 = 3.5601 lira a sensible start to Asif's method to work out the cost of the shoes in pounds?

You must give a reason for your answer.

(1 mark)

- 9 Astrid wants to buy some oil.  
She can buy the oil from either Dane Oil or Arctic Oil.

Here is information about the price that each company will charge Astrid.

| Dane Oil                                          | Arctic Oil                                        |
|---------------------------------------------------|---------------------------------------------------|
| $(4.2 \times 10^5)$ litres<br>for 2 500 000 Krone | $(8.6 \times 10^5)$ litres<br>for 770 000 Dollars |

Astrid wants to get the better value for money for the oil.

$$1 \text{ Dollar} = 6.57 \text{ Krone}$$

From which company should she buy her oil, Dane Oil or Arctic Oil?  
You must show your working.

(4 marks)