

A Currency Conversions

- 3 Aimee changes 250 euros into dollars.
The exchange rate is 1 euro = \$1.10.

Calculate the number of dollars Aimee receives.

$$\begin{aligned} 1 \text{ €} &= \$1.1 \\ \times 250 \quad \downarrow & \quad \downarrow \times 250 \\ 250 \text{ €} &= \$275 \end{aligned}$$

\$ 275 [1]

- (b) The cost of the flight is \$920.
The exchange rate is \$1 = 6.87 Chinese yuan.

Find the cost of the flight in yuan.

$$\begin{aligned} 1 \$ &= 6.87 \text{ ¥} \\ \times 920 \quad \downarrow & \quad \downarrow \times 920 \\ 920 \$ &= 6320.40 \text{ ¥} \end{aligned}$$

..... 6320.40 yuan [1]

- 5 Nina changes 153 euros into dollars when the exchange rate is \$1 = 0.9 euros.

Calculate the amount Nina receives.

$$\begin{aligned} \$1 &= 0.9 \text{ €} \\ \times 170 \quad \downarrow & \quad \downarrow \times 170 \quad \uparrow 153 \div 0.9 \\ \$170 &= 153 \text{ €} \end{aligned}$$

\$ [1]

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

Work out how many dollars he receives.

$$\begin{aligned} 1 \text{ krona} &= \$0.0099 \\ \times 40\,000 \quad \downarrow & \quad \downarrow \times 40\,000 \\ 40\,000 \text{ k} &= \$396 \end{aligned}$$

\$ 396 [1]

- 5 Kirsty changes \$380.80 into pounds (£) when £1 = \$1.19.

Calculate the amount Kirsty receives.

$$\begin{aligned} \text{£} 1 &= \$ 1.19 \\ \times 320 & \quad \quad \quad \times 320 \quad \quad \quad \swarrow 380.80 \div 1.19 \\ \text{£} 320 &= \$ 380.80 \end{aligned}$$

£ 320 [2]

- 8 Alex changes 190 euros (€) into pounds (£) when £1 = €1.1723.

Calculate the amount Alex receives.

Give your answer correct to 2 decimal places.

$$\begin{aligned} \text{£} 1 &= 1.1723 \text{ €} \\ \times \frac{100000}{617} & \quad \quad \quad \times \frac{100000}{617} \quad \quad \quad \swarrow 190 \div 1.1723 \\ \text{£} 162.07 &= 190 \text{ €} \end{aligned}$$

£ 162.07 [2]

- 2 (a) Anil changes \$830 into euros when the exchange rate is 1 euro = \$1.16.

He spends 500 euros.

He then changes the remaining money back into dollars at the same exchange rate.

Work out how much, in dollars, Anil receives.

$$\begin{aligned} 1 \text{ €} &= \$ 1.16 \\ \times \frac{20750}{62} & \quad \quad \quad \times \frac{20750}{62} \quad \quad \quad \times 215.52 \quad \quad \quad \times 215.52 \\ 715.52 \text{ €} &= \$ 830 \\ 715.52 - 500 &= 215.52 \end{aligned}$$

\$ 250 [3]

4 (a) The exchange rate is 1 euro = \$1.142.

(i) Johann changes \$500 into euros.

Calculate the number of euros Johann receives.
Give your answer correct to the nearest euro.

$$\begin{aligned} 1 \text{ €} &= \$1.142 \\ 437.83 \text{ €} &= \$500 \end{aligned}$$

437.83 euros [2]

(ii) Johann buys a computer for \$329.
The same computer costs 275 euros.

Calculate the difference in cost in dollars.

$$\begin{aligned} 1 \text{ €} &= \$1.142 \\ 275 \text{ €} &= \$314.05 \end{aligned}$$
$$329 - 314.05 = 14.95$$

\$ 14.95 [2]

3 In the USA, one gallon of fuel costs \$4.83.
In the UK, one litre of fuel costs £1.62.

The exchange rate is £1 = \$1.215.
1 gallon = 3.785 litres

In which country does 1 litre of fuel cost more and by how much?
Give your answer in dollars.

Change both into litres and dollars:

$$\begin{aligned} \text{UK: } £1 &= \$1.215 \\ £1.62 &= \$1.9683 \end{aligned}$$
$$\begin{aligned} \text{USA: } 3.785 \text{ litres} &= \$4.83 \\ 1 \text{ litre} &= \$1.2761 \end{aligned}$$
$$1.9683 - 1.2761 = 0.6922$$

(UK costs more)

UK by \$ 0.69 [3]

- 1 The table shows the amount received when exchanging \$100 in some countries.

Country	Amount received for \$100
Wales	77.05 pounds
India	7437.05 rupees
China	671.20 yuan
Spain	85.35 euros

- (a) Brad changes \$250 to Indian rupees.

Calculate the amount he receives correct to the nearest rupee.

$$\begin{aligned}
 \$100 &= 7437.05 \text{ ₹} \\
 \times 2.5 \quad \downarrow & \\
 \$250 &= 18592.625 \text{ ₹} \\
 &= 18593 \text{ rupees [2]}
 \end{aligned}$$

- (b) Wang changes 5400 Chinese yuan into dollars.

Calculate how much he receives in dollars, correct to the nearest cent.

$$\begin{aligned}
 \$100 &= 671.20 \text{ ¥} \\
 \times \frac{6750}{839} \quad \downarrow & \quad \leftarrow 5400 \div 671.2 \\
 \$804.53 &= 5400 \text{ ¥} \\
 \$ &= 804.53 \text{ [2]}
 \end{aligned}$$

- (c) Karel changed \$300 into 3891 Namibian dollars.

Complete the statement.

$$\begin{aligned}
 \$300 &= 3891 \text{ N.d.} \\
 \div 300 \quad \downarrow & \\
 \$1 &= 12.97 \text{ N.d.} \\
 &= 12.97 \text{ Namibian dollars [1]}
 \end{aligned}$$