

- 1 Mr and Mrs Clark and their three children live in the USA and take a holiday in Europe.

For
Examiner's
Use

- (a) Mr Clark changes \$500 into euros (€) when the exchange rate is €1 = \$1.4593.

Calculate how much he receives.

Give your answer correct to 2 decimal places.

$$\begin{aligned} \text{€1} &= \$1.4593 \\ x &= \$500 \\ x &= \frac{\text{€1}}{\$1.4593} \cdot \$500 \\ &= \text{€} 342.630028095... \\ &\approx \text{€} 342.63 \end{aligned}$$

Answer(a) € 342.63 [2]

- (b) Tickets for an amusement park cost €62 for an adult and €52 for a child.

Work out the cost for Mr and Mrs Clark and their three children to visit the park.

$$\begin{aligned} 2 \text{ adult} &= 2 \times \text{€} 62 = \text{€} 124 \\ 3 \text{ children} &= 3 \times \text{€} 52 = \text{€} 156 \\ \text{€} 124 + \text{€} 156 &= \text{€} 280 \end{aligned}$$

Answer(b) € 280 [3]

- (c) Mr Clark sees a notice:

SPECIAL OFFER!

Family ticket €200

Work out €200 as a percentage of your answer to **part (b)**.

$$\begin{aligned} \frac{200}{280} \times 100\% &= 71.428571428... \% \\ &\approx 71.4\% \end{aligned}$$

Answer(c) 71.4 % [1]