| 1 | A train leaves | Zurich at 2240 | and arrives in | Vienna at 07 | 32 the next day. |
|---|----------------|----------------|----------------|--------------|------------------|
|---|----------------|----------------|----------------|--------------|------------------|

Work out the time taken.

8 h 52 min [1]

2 From a sample of 80 batteries, 3 are faulty.

Work out the percentage of faulty batteries.

$$\frac{3}{80}$$
 × 100 % = 3.75 %

3,75 %[1]

Write 1.27×10^{-3} as an ordinary number.

Calculate $(2.1 - 0.078)^{17}$, giving your answer correct to 4 significant figures.

$$(2.1 - 0.078)^{17} = 157862.716...$$

 ≈ 157900

157900 [2]

Omar changes 2000 Saudi Arabian riyals (SAR) into euros (€) when the exchange rate is €1 = 5.087 SAR. 5

Work out how much Omar receives, giving your answer correct to the nearest euro. $\begin{cases}
\frac{1}{x} = \frac{5.007}{2000}
\end{cases}$

$$\frac{1}{x} = \frac{5.007}{2000}$$
1. 2000 = 5.087. x
$$\frac{2000}{5.087} = x$$

$$x = 393.159$$

$$x \approx 393$$

€[2]