

- 1 A train leaves Zurich at 2240 and arrives in Vienna at 0732 the next day.

Work out the time taken.

$$\begin{array}{r} 07.32 \\ 22.40 - \end{array} \xrightarrow{+24h} \begin{array}{r} 31.32 \\ 22.40 - \end{array} \rightarrow \begin{array}{r} 30.92 \\ 22.40 - \\ \hline 08.52 \end{array}$$

$= 8 \text{ h } 52 \text{ min}$

..... 8 h 52 min [1]

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

Work out the percentage of faulty batteries.

$$\frac{3}{80} \times 100\% = 3.75\%$$

..... 3.75 % [1]

- 3 In a group of students the probability that a student is left-handed is 0.28.
A student is chosen at random from the group.

Find the probability that this student is not left-handed.

$$1 - 0.28 = 0.72$$

..... 0.72 [1]

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

$$\begin{aligned} 1.27 \times 10^{-3} &= 1.27 \div 10^3 \\ &= 1.27 \div 1000 \\ &= 0.00127 \end{aligned}$$

..... 0.00127 [1]

- 5 Change 60 000 metres to kilometres.

$$\begin{aligned} 60000 \text{ m} &= 60000 \div 1000 \\ &= 60 \text{ km} \end{aligned}$$

..... 60 km [1]