

- 1 Work out the value of $\frac{48}{19.1 - 3.5 \times 4.6}$.

$$= \frac{48}{19.1 - 16.1}$$

$$= \frac{48}{3} = 16$$

Answer 16 [1]

- 2 Write the following in order of size, starting with the smallest.

$$0.83 \qquad \frac{5}{6} \qquad 82\% \qquad \frac{23}{28}$$

$$= 0.8333\dots \qquad = 0.82 \qquad = 0.8214\dots$$

Answer 82% < $\frac{23}{28}$ < 0.83 < $\frac{5}{6}$ [2]

- 3 The ferry from Helsinki to Travemunde leaves Helsinki at 17 30 on a Tuesday.
The journey takes 28 hours 45 minutes.

Work out the day and time that the ferry arrives in Travemunde.

$$\begin{array}{r} 17.30 \\ 28.45 + \\ \hline 45.75 \\ = 46.15 \end{array}$$

$$\begin{array}{r} 46.15 \\ 24.00 - \\ \hline 22.15 \text{ Wednesday} \end{array}$$

Answer Day Wednesday Time 22.15 [2]

4 TRIGONOMETRY

From the above word, write down the letters which have

- (a) exactly two lines of symmetry,

Answer(a) I [1]

- (b) rotational symmetry of order 2.

Answer(b) I, N [1]