

Homework 23

$$\begin{array}{r}
 1 \quad \begin{array}{r} 7 \cdot 5 \ 9 \\ + 1 \cdot 5 \ 4 \\ \hline \end{array}
 \quad 2. \quad \begin{array}{r} 8 \cdot 0 \ 2 \\ - 1 \cdot 2 \ 7 \\ \hline \end{array}
 \quad 3. \quad \begin{array}{r} 6 \cdot 7 \ 6 \\ \times \quad 7 \\ \hline \end{array}
 \quad 4. \quad \begin{array}{r} 6 \overline{) 8 \cdot 0 \ 4} \\ \hline \end{array}
 \end{array}$$

- 5 Sandra works night shift. One night she started work at 2235 and finished at 0715 the next morning.

How long did Sandra's shift last?

- 6 Solve algebraically the equation

$$7m - 8 = 40 + m.$$

- 7 Ross drove 190 miles from Preston to Edinburgh in 3 hours 30 minutes. During the first part of his journey he drove for 2 hours at an average speed of 68 miles per hour. Find the average speed in miles per hour for the rest of his journey.

- 8 (a) On the grid plot the points P $(-7, -3)$ and Q $(5, 6)$.

(b) Find the gradient of line PQ.

- 9 Use the formula below to find the value of T when $r = 2.6$ and $s = 1.4$.

$$T = \frac{rs}{r+s}$$

- 10 The distance from Earth to the Sun is approximately 150 million kilometres. Write this number in standard form.