

# Model boat races

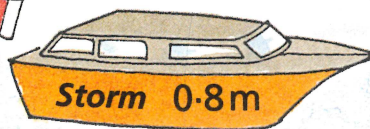
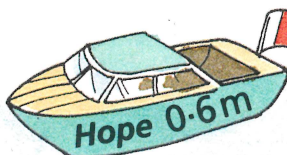
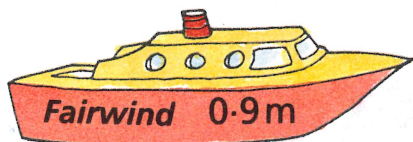


Fiona compares the lengths of *Sprite* and *Imp*.

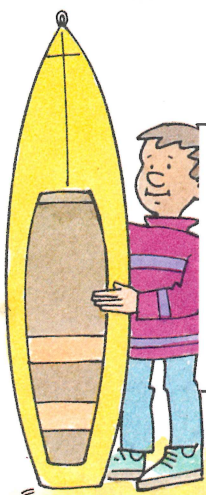
7 tenths take away 4 tenths leaves 3 tenths.  
*Sprite* is 0.3 metres longer than *Imp*.



- 1 How much longer is *Fairwind* than  
(a) *Hope* (b) *Storm* (c) *Dawn* (d) *Imp*?



- 2 (a) Which is the shortest of the six boats?  
(b) How much shorter is it than each of the others?



Rod's boat is 1.9m long. *Sprite* is 0.7m long.

*Sprite* is 1.2 metres shorter than Rod's boat.

$$\begin{array}{r} 1.9\text{ m} \\ - 0.7\text{ m} \\ \hline 1.2\text{ m} \end{array}$$

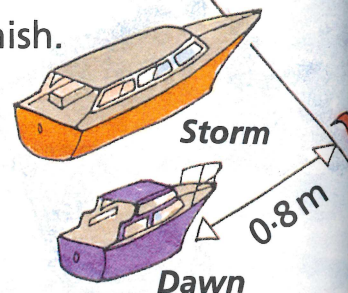
- 3 How much shorter is each boat than Rod's boat?

The race distance is 9.2 metres.

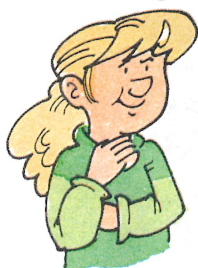
When *Storm* wins, *Dawn* is 0.8m from the finish.

Subtract the tenths.  
2 take away 8, I cannot.  
Exchange 1 unit for 10 tenths.  
12 take away 8 leaves 4 tenths.  
Subtract the units.  
8 take away 0 leaves 8 units.

$$\begin{array}{r} 8\text{ }^1 \\ \cancel{9}\text{.}2\text{ m} \\ - 0.8\text{ m} \\ \hline 8.4\text{ m} \end{array}$$



*Dawn* has sailed 8.4m.



- 4 Find the distance each boat has sailed when *Storm* wins.

Boat	<i>Sprite</i>	<i>Fairwind</i>	<i>Hope</i>	<i>Imp</i>
Distance from finish	0.4m	0.2m	0.9m	0.7m

- 5 (a)  $\begin{array}{r} 8.3 \\ - 0.7 \\ \hline \end{array}$  (b)  $\begin{array}{r} 6.5 \\ - 0.9 \\ \hline \end{array}$  (c)  $\begin{array}{r} 7.6 \\ - 1.8 \\ \hline \end{array}$  (d)  $\begin{array}{r} 5.4 \\ - 4.6 \\ \hline \end{array}$  (e)  $\begin{array}{r} 6.0 \\ - 2.9 \\ \hline \end{array}$