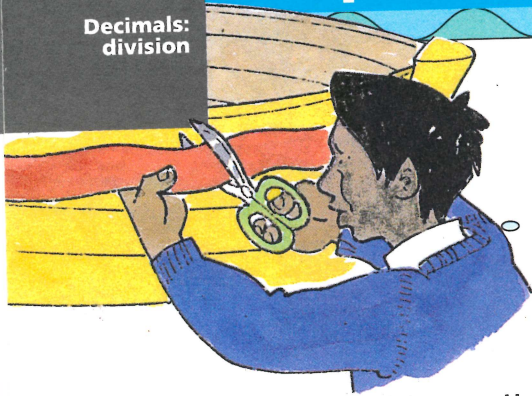


Spick and span



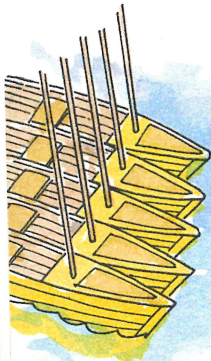
Vijay cuts a 0.6 metre length of plastic into 2 equal strips.

6 tenths divided by 2 gives 3 tenths.

Each strip is 0.3 metres long.

1 Find mentally the length of each strip.

- (a) 0.8m cut into 2 equal strips
(b) 0.9m cut into 3 equal strips



Janet uses 7.5 litres of paint to paint 5 identical boats. She finds the amount of paint for each boat like this:

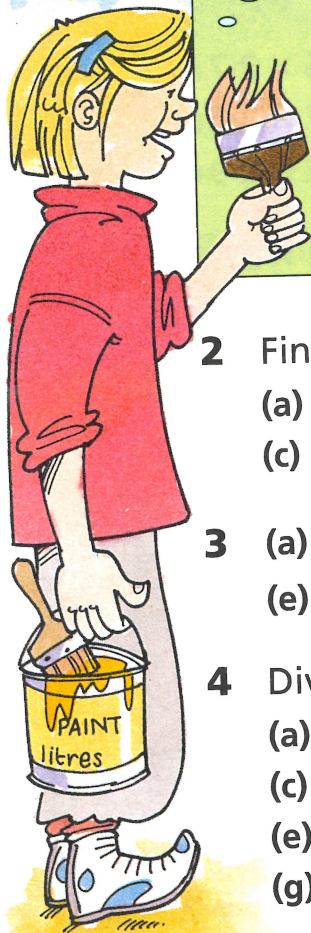
7.5 divided by 5.

Share the units. 5 times what is 7?
5 times 1 is 5 and 2 units left over.
Exchange 2 units for 20 tenths.
Share the tenths. 5 times what is 25?
5 times 5 is 25.

$$\begin{array}{r} 1. \\ 5 \overline{) 7.5} \end{array}$$

$$\begin{array}{r} 1.5 \\ 5 \overline{) 7.5} \end{array}$$

The amount of paint for each boat is 1.5 litres.



2 Find the amount of paint for each boat.

- (a) 4.8 litres for 2 boats (b) 9.2 litres for 4 boats
(c) 11.2 litres for 7 boats (d) 15.3 litres for 9 boats

- 3 (a) $\underline{2} \overline{) 5.6}$ (b) $\underline{3} \overline{) 7.8}$ (c) $\underline{5} \overline{) 16.5}$ (d) $\underline{4} \overline{) 3.6}$
(e) $8.4 \div 7$ (f) $9.6 \div 6$ (g) $55.8 \div 9$ (h) $37.6 \div 8$

4 Divide these lengths of plastic equally.

- (a) 8.7m into 3 strips (b) 14.5m into 5 strips
(c) 33.6m into 8 strips (d) 22.2m into 6 strips
(e) 39.9m into 7 strips (f) 8.1m into 9 strips
(g) 15.6m into 4 strips (h) 14.4m into 8 strips

Vijay shares 19 metres of bunting equally among 5 boats.

19 divided by 5.

19 can be written as 19.0
Share the units.
 5 times what is 19?
 5 times 3 is 15 and 4 left over.
 Exchange 4 units for 40 tenths.
Share the tenths.
 5 times what is 40?
 5 times 8 is 40.

$$\begin{array}{r} 3 \\ 5 \overline{)19.0} \end{array}$$

$$\begin{array}{r} 3.8 \\ 5 \overline{)19.40} \end{array}$$

There are **3.8** metres of bunting for each boat.



1 Share these lengths of bunting equally.

- | | |
|-------------------------|-----------------------|
| (a) 14m among 4 boats | (b) 18m among 5 boats |
| (c) 17m between 2 boats | (d) 50m among 4 boats |
| (e) 33m between 2 boats | (f) 69m among 5 boats |

- 2** (a) $42 \div 4$ (b) $73 \div 5$ (c) $84.9 \div 3$ (d) $99.4 \div 7$
 (e) $50.4 \div 6$ (f) $99 \div 2$ (g) $90.4 \div 8$ (h) $89.1 \div 9$

Look for a pattern

- 3** (a) $23 \div 10$ $45 \div 10$ $71 \div 10$ $194 \div 10$

What do you notice about your answers?

- (b) Write a rule for dividing by 10.
 (c) Use your rule to find mentally

$34 \div 10$ $66 \div 10$ $80 \div 10$ $404 \div 10$.

Try my puzzle

4 (a) Check that this is a magic square.

(b) Divide each number by 10 to make a new square.

(c) Is your new square magic? Explain.



24	3	18
9	15	21
12	27	6

Ask your teacher what to do next.

