## Four rules with fractions

(3)

Complete the calculations.
a) $\left(\frac{2}{3}+\frac{2}{3}\right) \times 3=4$
b) $\left(\frac{2}{3}+\frac{2}{3}\right) \div 3=\frac{4}{9}$
c) $\frac{2}{3}+\frac{2}{3} \times 3=2 \frac{2}{3}$
d) $\frac{2}{3}+\frac{2}{3} \div 3=\frac{8}{9}$
(2) Work out the perimeter of the rectangle.

(4) Jack mixes $\frac{2}{3}$ of a litre of orange juice and $\frac{3}{4}$ of a litre of apple juice.
He pours the juice into 5 glasses equally.
How much juice is in each glass?
$\frac{2}{3}+\frac{3}{4}=\frac{17}{12}$
$\frac{17}{12} \div 5=\frac{17}{60}$
Explain your method to your partner.

The area of these two shapes are equal.
Find the height of the rectangle.


7 Work out the calculation

$$
\left(1 \frac{3}{5}-\frac{7}{10}\right)^{2}
$$

8 Use what you know about working with fractions to explain, prove or disprove the following statements.
a)

$$
\text { Half of a half of } a \text { half is an eighth. }
$$


b)

Quarter of a half plus half of a quarter is a quarter.


9


Explore the different totals you can make using each card once only

