## Worksheet 16

## Multiplying Fractions by Whole Numbers

1 Calculate.
(a) $10 \times \frac{3}{5}$
(b) $10 \times \frac{2}{3}=10 \times 2$ thirds
$=10 \times 3$ fifths
$=30$ fifths
$=20$ thirds
$=\frac{30}{5}$
$=\frac{20}{3}$
$=6$

$$
=6 \frac{2}{3}
$$

(c) $9 \times \frac{2}{7}=9 \times 2$ sevenths
$=$18 sevenths

$$
\begin{aligned}
& =\frac{18}{7} \\
& =2 \frac{4}{7}
\end{aligned}
$$

2 Calculate.
(a) $\frac{1}{6} \times 7=\frac{1}{6} \times \frac{7}{1}=\frac{7}{6}$

$$
=1 \frac{1}{6}
$$

(b) $\frac{1}{6} \times 8=\frac{1}{6} \times \frac{8}{1}=\frac{8}{6}$

$$
=1 \frac{1}{3}
$$

(c) $\frac{1}{6} \times 9=\frac{1}{6} \times \frac{9}{1}=\frac{9}{6}$

$$
=1 \frac{1}{2}
$$

3 Holly used $\frac{2}{3} m$ of ribbon to tie one parcel. How many metres of ribbon will she need for 5 similar parcels?

$$
\begin{aligned}
& \frac{2}{3} \times \frac{5}{1}=\frac{10}{3} \\
& =3 \frac{1}{3}
\end{aligned}
$$

Jack and Whitney have some juice.
Jack drinks $2 \frac{1}{4}$ litres and Whitney drinks
$2 \frac{5}{12}$ litres.
How much do they drink altogether?

Complete this using two different methods.

Which method do you think is more efficient? Why?

Which subtraction is the odd one out?


Explain why.

The perimeter of the rectangle is $\frac{16}{9}$


Work out the missing length.

Fill in the missing numbers.


## Challenge answers below:

Jack and Whitney have some juice.
Jack drinks $2 \frac{1}{4}$ litres and Whitney drinks $2 \frac{5}{12}$ litres.

How much do they drink altogether?

Complete this using two different methods.

Which method do you think is more efficient? Why?

Fill in the missing numbers.

$$
4 \frac{5}{6}+\square=10 \frac{1}{3}
$$

The perimeter of the rectangle is $\frac{16}{9}$

$$
\frac{2}{3}
$$

$$
?
$$



They drink
$4 \frac{2}{3}$ litres altogether.

Encourage children to justify which method they prefer and why. Ensure children discuss which method is more or less efficient.

$$
5 \frac{3}{6} \text { or } 5 \frac{1}{2}
$$

The missing length is $\frac{2}{9}$

Work out the missing length.


