

Adding Fractions

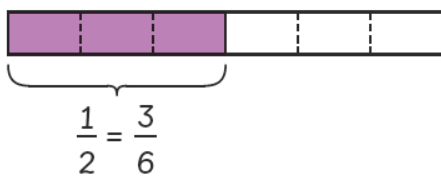
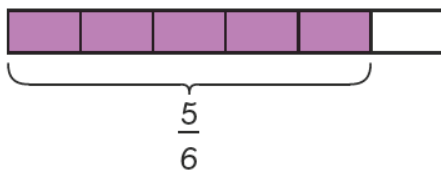
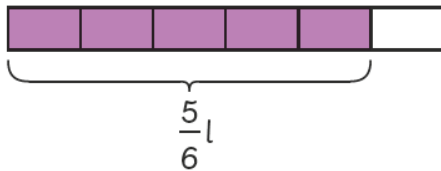
Lesson 11

In Focus

There is $\frac{1}{2}$ litre more orange juice than mango juice.

Let's Learn

- 1 There is $\frac{5}{6}$ l of mango juice.



$$\frac{5}{6} + \frac{1}{2} = 1\frac{1}{3}$$



$$\frac{5}{6} + \frac{1}{2} = \square$$



We need both fractions to have the same denominator.

$$\begin{aligned} \frac{5}{6} + \frac{1}{2} \\ = \frac{5}{6} + \frac{3}{6} \end{aligned}$$

$$= \frac{8}{6}$$

$$= 1\frac{2}{6}$$

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

This is an improper fraction.



Simplify.



$$\begin{aligned}
 \textcircled{2} \quad \frac{5}{6} + \frac{1}{2} &= \frac{\square}{6} + \frac{3}{6} \\
 &\quad \quad \quad \swarrow \quad \searrow \\
 &\quad \quad \quad \frac{\square}{6} + \frac{2}{6} \\
 &= 1 + \frac{2}{6} \\
 &= 1 + \frac{1}{3} \\
 &= 1\frac{1}{3}
 \end{aligned}$$

Guided Practice

- 1 Find the sum of $\frac{3}{5}$ and $\frac{9}{10}$.



Is it an improper fraction? Is it in its simplest form?

$$\frac{3}{5} + \frac{9}{10} = \square$$

$$\begin{aligned}
 \frac{3}{5} + \frac{9}{10} \\
 = \frac{\square}{\square} + \frac{\square}{\square} \\
 = \frac{\square}{\square}
 \end{aligned}$$

Are the denominators the same?



2

Add.

$$\frac{11}{12} + \frac{1}{4} = \square$$

$$\begin{aligned} \frac{11}{12} + \frac{1}{4} &= \frac{\square}{\square} + \frac{\square}{\square} \\ &= \frac{\square}{\square} \end{aligned}$$

Is it a proper fraction?



Is it in its simplest form?

Name: _____ Class: _____ Date: _____

Worksheet 11

Adding Fractions

1 Add and give your answer as a mixed number in its simplest form.

(a) $\frac{3}{4} + \frac{11}{12} =$

(b) $\frac{7}{10} + \frac{4}{5} =$

(c) $\frac{11}{14} + \frac{5}{7} =$

(d) $\frac{11}{15} + \frac{2}{3} =$

2 Find the sum.

$$\begin{aligned} \text{(a)} \quad & \frac{9}{10} + \frac{3}{5} \\ & = \frac{9}{10} + \frac{6}{10} \\ & \quad \swarrow \quad \searrow \\ & \quad \square \quad \square \\ & = \square + \square = \square \\ & \quad \quad \quad = \square \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad & \frac{3}{10} + \frac{5}{6} \\ & = \frac{9}{30} + \frac{25}{30} \\ & \quad \swarrow \quad \searrow \\ & \quad \square \quad \square \\ & = \square + \square = \square \\ & \quad \quad \quad = \square \end{aligned}$$