

Worksheet 10

Adding Fractions

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

$$\begin{aligned} \text{(a)} \quad & \frac{3}{5} + \frac{1}{2} \\ &= \frac{6}{10} + \frac{5}{10} \\ &= \frac{11}{10} \\ &= 1\frac{1}{10} \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad & \frac{5}{7} + \frac{1}{2} \\ &= \frac{10}{14} + \frac{7}{14} \\ &= \frac{17}{14} \\ &= 1\frac{3}{14} \end{aligned}$$

$$\begin{aligned} \text{(c)} \quad & \frac{5}{6} + \frac{4}{9} \\ &= \frac{15}{18} + \frac{8}{18} \\ &= \frac{23}{18} \\ &= 1\frac{5}{18} \end{aligned}$$

$$\begin{aligned} \text{(d)} \quad & \frac{5}{6} + \frac{2}{3} \\ &= \frac{5}{6} + \frac{4}{6} \\ &= \frac{9}{6} \\ &= 1\frac{3}{6} \\ &= 1\frac{1}{2} \end{aligned}$$

2 Find the sum.

$$\begin{aligned} \text{(a)} \quad & \frac{5}{7} + \frac{9}{14} \\ &= \frac{10}{14} + \frac{9}{14} \\ & \quad \swarrow \quad \searrow \\ & \quad \frac{4}{14} \quad \frac{5}{14} \\ &= 1 + \frac{5}{14} \\ &= \boxed{1\frac{5}{14}} \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad & \frac{9}{11} + \frac{13}{22} \\ &= \boxed{\frac{18}{22}} + \frac{13}{22} \\ & \quad \swarrow \quad \searrow \\ & \quad \boxed{\frac{4}{22}} \quad \boxed{\frac{9}{22}} \\ &= \boxed{1} + \boxed{\frac{9}{22}} \\ &= \boxed{1\frac{9}{22}} \end{aligned}$$