

Worksheet 11

Adding Fractions

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

$$(a) \quad \frac{3}{4} + \frac{11}{12} = \frac{9}{12} + \frac{11}{12}$$

$$\frac{9}{12} + \frac{11}{12} = \frac{20}{12}$$

$$\frac{20}{12} = 1\frac{8}{12} = 1\frac{2}{3}$$

$$(b) \quad \frac{7}{10} + \frac{4}{5} = \frac{7}{10} + \frac{8}{10}$$

$$\frac{7}{10} + \frac{8}{10} = \frac{15}{10}$$

$$\frac{15}{10} = 1\frac{5}{10} = 1\frac{1}{2}$$

$$(c) \quad \frac{11}{14} + \frac{5}{7} = \frac{11}{14} + \frac{10}{14}$$

$$\frac{11}{14} + \frac{10}{14} = \frac{21}{14}$$

$$\frac{21}{14} = 1\frac{7}{14} = 1\frac{1}{2}$$

$$(d) \quad \frac{11}{15} + \frac{2}{3} = \frac{11}{15} + \frac{10}{15}$$

$$\frac{11}{15} + \frac{10}{15} = \frac{21}{15}$$

$$\frac{21}{15} = 1\frac{6}{15} = 1\frac{2}{5}$$

2 Find the sum.

$$\begin{aligned} \text{(a)} \quad & \frac{9}{10} + \frac{3}{5} \\ &= \frac{9}{10} + \frac{6}{10} \\ & \quad \swarrow \quad \searrow \\ & \boxed{\frac{1}{10}} \quad \boxed{\frac{5}{10}} \\ &= \boxed{1} + \boxed{\frac{5}{10}} = \boxed{1\frac{5}{10}} \\ & \quad \quad \quad = \boxed{1\frac{1}{2}} \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad & \frac{3}{10} + \frac{5}{6} \\ &= \frac{9}{30} + \frac{25}{30} \\ & \quad \swarrow \quad \searrow \\ & \boxed{\frac{21}{30}} \quad \boxed{\frac{4}{30}} \\ &= \boxed{1} + \boxed{\frac{4}{30}} = \boxed{1\frac{4}{30}} \\ & \quad \quad \quad = \boxed{1\frac{2}{15}} \end{aligned}$$

