

## Pages 34-35 — Adding and Subtracting Fractions

$$1) \quad \frac{5}{9} + \frac{8}{9} - \frac{6}{9} = \frac{5+8-6}{9} = \frac{7}{9}$$

(1 mark)

$$2) \quad \frac{2}{11} + \frac{8}{11} = \frac{2+8}{11} = \frac{10}{11} \quad (1 \text{ mark})$$

$$\frac{17}{20} - \frac{3}{10} = \frac{17}{20} - \frac{6}{20}$$
$$= \frac{17-6}{20} = \frac{11}{20} \quad (1 \text{ mark})$$

$$3) \quad \frac{1}{2} + \frac{1}{8} = \frac{4}{8} + \frac{1}{8} = \frac{4+1}{8} = \frac{5}{8}$$

(1 mark)

$$\frac{4}{5} - \frac{4}{15} = \frac{12}{15} - \frac{4}{15} = \frac{12-4}{15}$$
$$= \frac{8}{15} \quad (1 \text{ mark})$$

$$4) \quad \text{E.g. } \frac{9}{10} - \frac{3}{4} = \frac{18}{20} - \frac{15}{20}$$
$$= \frac{18-15}{20} = \frac{3}{20} \quad (1 \text{ mark})$$

$$5) \quad \frac{11}{12} + \frac{5}{8} = \frac{22}{24} + \frac{15}{24}$$
$$= \frac{22+15}{24} = \frac{37}{24} = 1\frac{13}{24}$$

(1 mark)

$$6) \text{ E.g. } \frac{1}{8} + \frac{5}{6} = \frac{3}{24} + \frac{20}{24}$$

$$= \frac{3+20}{24} = \frac{23}{24}$$

(2 marks for the correct answer.  
Otherwise 1 mark for correct  
working.)

$$7) 2\frac{1}{5} - \frac{2}{3} = \frac{11}{5} - \frac{2}{3}$$

$$= \frac{33}{15} - \frac{10}{15} = \frac{33-10}{15} = \frac{23}{15}$$

(2 marks for the correct answer.  
Otherwise 1 mark for correct  
working.)

$$8) 1\frac{1}{4} + 2\frac{1}{3} = \frac{5}{4} + \frac{7}{3}$$

$$= \frac{15}{12} + \frac{28}{12} = \frac{15+28}{12} = \frac{43}{12}$$

$$= 3\frac{7}{12}$$

(2 marks for the correct answer.  
Otherwise 1 mark for correct  
working.)

Alternatively, you could have  
added the whole number and  
fraction parts of the mixed  
numbers separately, then  
combined them at the end.

$$9) 1\frac{7}{10} - \frac{1}{4} = \frac{17}{10} - \frac{1}{4}$$

$$= \frac{34}{20} - \frac{5}{20} = \frac{34-5}{20}$$

$$= \frac{29}{20} = 1\frac{9}{20}$$

(2 marks for the correct answer.  
Otherwise 1 mark for correct  
working.)