



Simplify  $6\frac{1}{2}+1\frac{2}{3}$ 



Mathletics Instant Workbooks

# Fractions Student Book - Series H 2

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#### Topic 1: Equivalent fractions

QUESTION 1 Complete the following to make equivalent fractions.

a 
$$\frac{1}{2} = \frac{3}{}$$

b 
$$\frac{1}{3} = \frac{4}{3}$$

c 
$$\frac{1}{4} = \frac{5}{}$$

d 
$$\frac{1}{5} = \frac{6}{}$$

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

$$f = \frac{2}{5} = \frac{10}{10}$$

$$g = \frac{2}{7} = \frac{8}{100}$$

h 
$$\frac{2}{9} = \frac{14}{11}$$

$$i \frac{3}{10} = \frac{9}{10}$$

$$j = \frac{3}{11} = \frac{3}{22}$$

$$k \frac{3}{14} = \frac{3}{42}$$

$$I = \frac{3}{16} = \frac{15}{16}$$

QUESTION 2 Find the missing number to complete the sentence.

**a** 
$$\frac{10}{30} = \frac{10}{3}$$

b 
$$\frac{12}{48} = \frac{1}{}$$

c 
$$\frac{5}{35} = \frac{1}{}$$

d 
$$\frac{8}{72} = \frac{1}{}$$

e 
$$\frac{18}{54} = \frac{1}{}$$

$$f = \frac{12}{36} = \frac{3}{36}$$

$$g = \frac{4}{9} = \frac{28}{}$$

**h** 
$$\frac{3}{6} = \frac{15}{6}$$

$$i \frac{4}{7} = \frac{36}{}$$

$$j = \frac{2}{11} = \frac{14}{11}$$

$$k = \frac{3}{5} = \frac{27}{1}$$

$$I = \frac{4}{13} = \frac{3}{52}$$

QUESTION 3 Complete these equivalent fractions.

a 
$$\frac{2}{5} = \frac{24}{}$$

b 
$$\frac{7}{96} = \frac{7}{24}$$

$$c \frac{3}{7} = \frac{3}{140}$$

d 
$$\frac{5}{12} = \frac{}{96}$$

$$e \frac{2}{9} = \frac{30}{100}$$

$$f = \frac{24}{3}$$

$$g = \frac{5}{8} = \frac{96}{96}$$

h 
$$\frac{16}{20} = \frac{4}{10}$$

i 
$$\frac{3}{7} = \frac{33}{}$$

$$j = \frac{5}{12} = \frac{5}{120}$$

$$k \frac{2}{5} = \frac{80}{80}$$

$$1 \quad \frac{24}{36} = \frac{2}{36}$$

QUESTION 4 Find the value of the letters.

a 
$$\frac{x}{50} = \frac{7}{10}$$

b 
$$\frac{a}{3} = \frac{9}{6}$$

c 
$$\frac{b}{7} = \frac{8}{14}$$
 \_\_\_\_\_

a 
$$\frac{x}{50} = \frac{7}{10}$$
 b  $\frac{a}{3} = \frac{9}{6}$  c  $\frac{b}{7} = \frac{8}{14}$  d  $\frac{c}{8} = \frac{6}{8}$ 

e 
$$\frac{3}{5} = \frac{x}{25}$$

$$\frac{m}{52} = \frac{8}{4}$$

g 
$$\frac{n}{9} = \frac{7}{3}$$
 \_\_\_\_\_

e 
$$\frac{3}{5} = \frac{x}{25}$$
 \_\_\_\_\_ f  $\frac{m}{52} = \frac{8}{4}$  \_\_\_\_\_ g  $\frac{n}{9} = \frac{7}{3}$  \_\_\_\_\_ h  $\frac{p}{12} = \frac{18}{3}$  \_\_\_\_\_

$$i \frac{3}{a} = \frac{6}{18}$$

$$j = \frac{5}{7} = \frac{a}{14}$$

$$k \frac{t}{9} = \frac{1}{3}$$

i 
$$\frac{3}{a} = \frac{6}{18}$$
 \_\_\_\_\_ i  $\frac{5}{7} = \frac{a}{14}$  \_\_\_\_\_ k  $\frac{t}{9} = \frac{1}{3}$  \_\_\_\_\_ I  $\frac{y}{12} = \frac{5}{6}$  \_\_\_\_\_

$$m \frac{4}{m} = \frac{2}{5}$$

m 
$$\frac{4}{m} = \frac{2}{5}$$
 \_\_\_\_\_ p  $\frac{p}{5} = \frac{4}{10}$  \_\_\_\_\_ p  $\frac{p}{5} = \frac{4}{10}$  \_\_\_\_\_

**o** 
$$\frac{8}{a} = \frac{2}{7}$$

p 
$$\frac{p}{5} = \frac{4}{10}$$

#### Topic 2: Simplifying fractions

QUESTION 1 Write the following fractions in simplest form.

a 
$$\frac{8}{12} = \frac{12}{64} = \frac{1$$

b 
$$\frac{12}{64} = ----$$

$$c = \frac{10}{150} = ----$$

d 
$$\frac{25}{75} = ----$$

$$e^{-\frac{25}{100}} = ----$$

$$f = \frac{5}{40} = ----$$

$$g = \frac{8}{64} = \frac{8}{64}$$

h 
$$\frac{9}{54} = ----$$

$$i \frac{52}{65} = ----$$

$$j \frac{24}{72} = ----$$

$$k \frac{36}{48} = ----$$

$$\frac{32}{80} = ----$$

QUESTION 2 Write in simplest form.

$$a \frac{10}{60} = ----$$

b 
$$\frac{20}{160} = ----$$

$$c = \frac{30}{330} = ----$$

d 
$$\frac{40}{480} = ----$$

$$e^{-\frac{8}{96}} = ----$$

$$f = \frac{10}{130} = \frac{1}{100}$$

$$g \frac{12}{144} = ----$$

h 
$$\frac{14}{112} = ----$$

$$i \frac{7}{63} = ----$$

$$j = \frac{9}{72} = ----$$

$$k = \frac{11}{132} = ----$$

$$I = \frac{13}{104} = ----$$

QUESTION 3 Simplify the following fractions.

a 
$$\frac{24}{216} = \frac{32}{96} = \frac$$

**b** 
$$\frac{32}{96} = ----$$

$$c \frac{48}{240} = ----$$

d 
$$\frac{54}{324} = ----$$

e 
$$\frac{90}{720} = \frac{36}{324} = \frac$$

$$f = \frac{36}{324} = ----$$

$$g = \frac{42}{336} = ----$$

$$h \frac{24}{120} = ----$$

$$i \frac{64}{704} = ----$$

$$\mathbf{j} = \frac{63}{189} = ----$$

$$k = \frac{81}{324} = ----$$

$$1 \frac{108}{324} = ----$$

Write in simplest form, leaving as mixed numbers.

a 
$$3\frac{0}{10} =$$
\_\_\_\_\_

**b** 
$$5\frac{6}{30} =$$

**a** 
$$3\frac{8}{10} =$$
 **b**  $5\frac{6}{30} =$  **c**  $6\frac{5}{15} =$  **d**  $8\frac{3}{12} =$ 

d 
$$8\frac{3}{12} =$$
\_\_\_\_\_

e 
$$9\frac{4}{16} =$$
\_\_\_\_\_

$$f 7\frac{3}{9} =$$
\_\_\_\_\_

e 
$$9\frac{4}{16} =$$
 \_\_\_\_\_ f  $7\frac{3}{9} =$  \_\_\_\_\_ g  $9\frac{14}{16} =$  \_\_\_\_\_ h  $12\frac{6}{18} =$  \_\_\_\_\_

h 
$$12\frac{6}{18} =$$
\_\_\_\_\_

i 
$$15\frac{8}{24} =$$
\_\_\_\_\_

**j** 
$$16\frac{3}{27} =$$

i 
$$15\frac{8}{24} =$$
 \_\_\_\_\_ i  $16\frac{3}{27} =$  \_\_\_\_\_ k  $4\frac{12}{32} =$  \_\_\_\_\_ I  $7\frac{8}{12} =$  \_\_\_\_\_

$$1 \quad 7\frac{8}{12} =$$

m 
$$16\frac{4}{12} =$$
 n  $15\frac{16}{24} =$  0  $18\frac{3}{6} =$  p  $5\frac{6}{18} =$ 

**n** 
$$15\frac{16}{24} =$$

o 
$$18\frac{3}{6} =$$
\_\_\_\_\_

$$p \quad 5\frac{6}{18} =$$
\_\_\_\_\_

#### Topic 3: Proper fractions, improper fractions and mixed numbers

QUESTION 1 Write whether each fraction is proper, improper or a mixed number.

a 
$$2\frac{1}{3}$$

b 
$$\frac{120}{9}$$
\_\_\_\_\_

a 
$$2\frac{1}{3}$$
 \_\_\_\_\_ b  $\frac{120}{9}$  \_\_\_\_ c  $5\frac{1}{20}$  \_\_\_\_ d  $\frac{9}{10}$  \_\_\_\_

d 
$$\frac{9}{10}$$
 \_\_\_\_\_

e 
$$\frac{3}{5}$$
 \_\_\_\_\_\_

e 
$$\frac{3}{5}$$
 \_\_\_\_\_ f  $\frac{5}{12}$  \_\_\_\_\_ g  $\frac{8}{9}$  \_\_\_\_\_ h  $\frac{15}{2}$  \_\_\_\_\_

g 
$$\frac{8}{9}$$
 \_\_\_\_\_

h 
$$\frac{15}{2}$$
 \_\_\_\_\_

$$i = \frac{8}{3}$$

$$j \ \ 3\frac{2}{5}$$
 \_\_\_\_\_

\_\_\_\_\_ j 
$$3\frac{2}{5}$$
 \_\_\_\_\_ k  $2\frac{15}{16}$  \_\_\_\_\_ I  $\frac{8}{8}$  \_\_\_\_\_

$$I = \frac{8}{9}$$

Write each mixed number as an improper fraction.

**a** 
$$2\frac{1}{5} =$$

**b** 
$$8\frac{1}{10} =$$
 **c**  $1\frac{1}{2} =$ 

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

d 
$$2\frac{1}{4} = -----$$

e 
$$3\frac{2}{5} = ----$$

$$f 9\frac{4}{7} = ----$$

e 
$$3\frac{2}{5} = \frac{9}{10} = \frac{9}{10} = \frac{8}{9} = \frac{8}{9} = \frac{9}{10} = \frac{1}{10} = \frac{1}{10}$$

h 
$$2\frac{8}{9} = -----$$

i 
$$4\frac{5}{6} = ----$$

**j** 
$$6\frac{3}{8} =$$

**k** 
$$6\frac{3}{5} =$$

i 
$$4\frac{5}{6} = \frac{1}{10}$$
 j  $6\frac{3}{8} = \frac{1}{10}$  k  $6\frac{3}{5} = \frac{1}{10}$ 

Write each improper fraction as a mixed number.

a 
$$\frac{24}{7} =$$
 \_\_\_\_\_ b  $\frac{8}{3} =$  \_\_\_\_ c  $\frac{19}{5} =$  \_\_\_\_ d  $\frac{28}{11} =$  \_\_\_\_

b 
$$\frac{8}{3} =$$
\_\_\_\_\_

c 
$$\frac{19}{5} =$$
\_\_\_\_\_

d 
$$\frac{28}{11} =$$
\_\_\_\_\_

$$e^{-\frac{63}{10}} = \underline{\phantom{0}}$$

$$f = \frac{58}{7} =$$

e 
$$\frac{63}{10} =$$
 \_\_\_\_\_ f  $\frac{58}{7} =$  \_\_\_\_\_ g  $\frac{93}{15} =$  \_\_\_\_\_ h  $\frac{69}{12} =$  \_\_\_\_\_

h 
$$\frac{69}{12} =$$
\_\_\_\_\_

$$i \frac{53}{16} =$$
\_\_\_\_\_

$$j = \frac{88}{7} =$$

$$I = \frac{98}{9} = \underline{\hspace{1cm}}$$

Change these improper fractions to mixed numbers.

a 
$$\frac{28}{5} =$$
\_\_\_\_\_

b 
$$\frac{12}{5} =$$
\_\_\_\_\_

a 
$$\frac{28}{5} =$$
 \_\_\_\_\_ b  $\frac{12}{5} =$  \_\_\_\_ c  $\frac{93}{16} =$  \_\_\_\_ d  $\frac{38}{7} =$  \_\_\_\_\_

d 
$$\frac{38}{7} =$$
\_\_\_\_\_

e 
$$\frac{37}{7} =$$
\_\_\_\_\_\_

$$f = \frac{64}{10} = \frac{64}{10}$$

e 
$$\frac{37}{7} =$$
 \_\_\_\_\_ f  $\frac{64}{10} =$  \_\_\_\_\_ g  $\frac{105}{24} =$  \_\_\_\_\_ h  $\frac{46}{9} =$  \_\_\_\_\_

h 
$$\frac{46}{9} =$$
\_\_\_\_\_

$$i \frac{49}{9} =$$

$$j \frac{73}{9} =$$

i 
$$\frac{49}{8} =$$
 \_\_\_\_\_ j  $\frac{73}{9} =$  \_\_\_\_\_ k  $\frac{115}{20} =$  \_\_\_\_\_ l  $\frac{56}{10} =$  \_\_\_\_\_

$$I = \frac{56}{10} = \frac{1}{10}$$

$$m \frac{53}{9} =$$

$$n \frac{85}{12} =$$
\_\_\_\_\_

m 
$$\frac{53}{9} =$$
 p  $\frac{68}{7} =$ 

p 
$$\frac{68}{7} =$$
\_\_\_\_\_

#### Topic 4: Addition and subtraction of fractions with the same denominator

QUESTION 1 Add or subtract the following fractions.

b 
$$\frac{3}{10} + \frac{4}{10} =$$
\_\_\_\_\_

$$c = \frac{1}{9} + \frac{3}{9} =$$
\_\_\_\_\_

d 
$$\frac{2}{8} + \frac{1}{8} =$$
\_\_\_\_\_

e 
$$\frac{3}{20} + \frac{4}{20} =$$

d 
$$\frac{2}{8} + \frac{1}{8} =$$
 f  $\frac{2}{7} + \frac{1}{7} =$ 

$$g = \frac{5}{8} - \frac{2}{8} =$$

h 
$$\frac{7}{13} - \frac{2}{13} =$$

g 
$$\frac{5}{8} - \frac{2}{8} =$$
 \_\_\_\_\_ i  $\frac{8}{17} - \frac{5}{17} =$  \_\_\_\_\_

QUESTION 2 Find these sums.

$$a = \frac{2}{10} + \frac{5}{10} = \frac{1}{10}$$

b 
$$\frac{3}{7} + \frac{1}{7} =$$

a 
$$\frac{2}{10} + \frac{5}{10} =$$
 c  $\frac{5}{8} + \frac{3}{8} =$  ...

$$d = \frac{9}{24} + \frac{2}{24} = \underline{\hspace{1cm}}$$

$$e \frac{6}{13} + \frac{1}{13} = \underline{\hspace{1cm}}$$

$$g = \frac{6}{17} + \frac{5}{17} =$$

$$h = \frac{12}{35} + \frac{12}{35} =$$

g 
$$\frac{6}{17} + \frac{5}{17} =$$
 i  $\frac{8}{27} + \frac{2}{27} =$ 

QUESTION 3 Find these differences

$$a = \frac{9}{15} - \frac{7}{15} = \frac{1}{15}$$

b 
$$\frac{6}{13} - \frac{2}{13} =$$

a 
$$\frac{9}{15} - \frac{7}{15} =$$
 c  $\frac{8}{25} - \frac{6}{25} =$  ...

$$d = \frac{9}{38} - \frac{5}{38} = \underline{\phantom{0}}$$

$$e \frac{6}{49} - \frac{3}{49} =$$

d 
$$\frac{9}{38} - \frac{5}{38} =$$
 f  $\frac{5}{16} - \frac{3}{16} =$ 

g 
$$\frac{8}{27} - \frac{7}{27} =$$

$$1 \quad \frac{5}{38} - \frac{3}{38} =$$

g 
$$\frac{8}{27} - \frac{7}{27} =$$
 i  $\frac{6}{25} - \frac{3}{25} =$  ...

Add or subtract, giving the answers in mixed numbers.

$$a \frac{45}{36} - \frac{2}{36} =$$

$$b = \frac{8}{10} + \frac{11}{10} = \frac{1}{10}$$

a 
$$\frac{45}{36} - \frac{2}{36} =$$
 c  $\frac{3}{7} + \frac{9}{7} =$ 

d 
$$\frac{5}{11} + \frac{9}{11} =$$

$$e \frac{8}{25} + \frac{24}{25} =$$

d 
$$\frac{5}{11} + \frac{9}{11} =$$
  $\frac{8}{25} + \frac{24}{25} =$   $\frac{3}{12} - \frac{4}{12} =$ 

$$g = \frac{49}{15} - \frac{12}{15} = \underline{\hspace{1cm}}$$

h 
$$\frac{19}{5} - \frac{12}{5} =$$

g 
$$\frac{49}{15} - \frac{12}{15} =$$
 i  $\frac{16}{5} - \frac{2}{5} =$  \_\_\_\_\_\_

$$j \frac{28}{12} - \frac{2}{12} =$$

$$k = \frac{361}{200} - \frac{25}{200} =$$

#### Topic 5: Addition and subtraction of fractions with the different denominators

QUESTION 1 Add or subtract the following fractions.

b 
$$\frac{1}{3} + \frac{1}{5} =$$

$$c \frac{1}{8} + \frac{1}{24} =$$

d 
$$\frac{3}{4} - \frac{1}{2} =$$

$$e = \frac{5}{6} - \frac{2}{3} =$$

$$g = \frac{1}{8} + \frac{1}{4} =$$
\_\_\_\_\_

h 
$$\frac{3}{4} - \frac{1}{3} =$$

g 
$$\frac{1}{8} + \frac{1}{4} =$$
 \_\_\_\_\_ i  $\frac{1}{6} - \frac{1}{12} =$  \_\_\_\_\_

QUESTION 2 Find these sums and differences.

$$a \frac{3}{8} + \frac{2}{5} =$$

b 
$$\frac{8}{15} + \frac{3}{15} =$$
\_\_\_\_\_

**a** 
$$\frac{3}{8} + \frac{2}{5} =$$
 **b**  $\frac{8}{15} + \frac{3}{15} =$  **c**  $\frac{5}{9} - \frac{1}{3} =$ 

d 
$$\frac{6}{7} + \frac{2}{3} =$$

$$e = \frac{4}{15} + \frac{1}{5} = \underline{\phantom{0}}$$

$$g = \frac{7}{9} + \frac{5}{7} =$$

$$h = \frac{4}{5} + \frac{6}{7} =$$

g 
$$\frac{7}{9} + \frac{5}{7} =$$
 \_\_\_\_\_ i  $\frac{3}{7} + \frac{2}{9} =$  \_\_\_\_\_

QUESTION 3 Find the value of the following.

$$a = \frac{8}{15} + \frac{2}{3} = \frac{1}{3}$$

b 
$$\frac{5}{6} - \frac{3}{4} =$$

a 
$$\frac{8}{15} + \frac{2}{3} =$$
 c  $\frac{6}{7} - \frac{2}{21} =$  .....

d 
$$\frac{3}{20} + \frac{7}{50} =$$

$$e \frac{3}{25} - \frac{1}{5} = \underline{\phantom{0}}$$

d 
$$\frac{3}{20} + \frac{7}{50} =$$
 \_\_\_\_\_ f  $\frac{3}{8} + \frac{5}{24} =$  \_\_\_\_\_

$$g = \frac{8}{12} + \frac{3}{24} = \underline{\hspace{1cm}}$$

$$h = \frac{93}{100} - \frac{2}{5} = \underline{\hspace{1cm}}$$

g 
$$\frac{8}{12} + \frac{3}{24} =$$
 \_\_\_\_\_ i  $\frac{2}{3} + \frac{3}{4} =$  \_\_\_\_\_

QUESTION 4 Evaluate the following

a 
$$\frac{6}{7} - \frac{5}{6} =$$
\_\_\_\_\_

b 
$$\frac{18}{21} - \frac{3}{7} =$$

b 
$$\frac{18}{21} - \frac{3}{7} =$$
 \_\_\_\_\_ c  $\frac{2}{7} + \frac{3}{14} =$  \_\_\_\_

d 
$$\frac{3}{4} - \frac{1}{8} =$$
\_\_\_\_\_

$$e \frac{5}{6} - \frac{2}{18} =$$

e 
$$\frac{5}{6} - \frac{2}{18} =$$
 f  $\frac{1}{3} - \frac{1}{7} =$ 

$$g = \frac{8}{9} - \frac{2}{3} =$$

h 
$$\frac{11}{25} + \frac{1}{5} =$$

$$\mathbf{j} = \frac{7}{10} - \frac{2}{5} = \underline{\phantom{0}}$$

$$k = \frac{9}{10} - \frac{2}{5} =$$

$$\mathbf{j} \quad \frac{7}{10} - \frac{2}{5} = \underline{\qquad} \qquad \mathbf{k} \quad \frac{9}{10} - \frac{2}{5} = \underline{\qquad} \qquad \mathbf{l} \quad \frac{9}{10} - \frac{3}{5} = \underline{\qquad}$$

#### Topic 6: Multiplication of fractions

QUESTION 1 Multiply the following fractions.

a 
$$\frac{1}{3} \times \frac{1}{3} =$$
\_\_\_\_\_

b 
$$\frac{2}{5} \times \frac{2}{5} =$$
 \_\_\_\_\_

a 
$$\frac{1}{3} \times \frac{1}{3} =$$
 \_\_\_\_\_ c  $\frac{3}{7} \times \frac{3}{7} =$  \_\_\_\_\_

d 
$$\frac{1}{5} \times \frac{1}{15} =$$
\_\_\_\_\_

$$e \frac{3}{4} \times \frac{4}{5} =$$
\_\_\_\_\_

d 
$$\frac{1}{5} \times \frac{1}{15} =$$
 \_\_\_\_\_ f  $\frac{5}{6} \times \frac{6}{7} =$  \_\_\_\_\_

$$g \frac{1}{12} \times \frac{1}{12} = \underline{\hspace{1cm}}$$

$$h \frac{3}{25} \times \frac{1}{4} = \underline{\hspace{1cm}}$$

QUESTION 2 Multiply these fractions.

$$a \frac{1}{5} \times \frac{2}{9} =$$

b 
$$\frac{3}{7} \times \frac{4}{8} =$$
\_\_\_\_\_

a 
$$\frac{1}{5} \times \frac{2}{9} =$$
 \_\_\_\_\_ b  $\frac{3}{7} \times \frac{4}{8} =$  \_\_\_\_\_ c  $\frac{5}{9} \times \frac{6}{7} =$  \_\_\_\_\_

d 
$$\frac{1}{3} \times \frac{5}{7} =$$
 \_\_\_\_\_ f  $\frac{3}{4} \times \frac{5}{9} =$  \_\_\_\_\_

$$e \frac{6}{8} \times \frac{2}{3} =$$
\_\_\_\_\_

$$f \frac{3}{4} \times \frac{5}{9} =$$

$$g = \frac{9}{10} \times \frac{11}{10} =$$

$$h \frac{9}{11} \times \frac{10}{11} = \underline{\hspace{1cm}}$$

g 
$$\frac{9}{10} \times \frac{11}{10} =$$
 i  $\frac{3}{4} \times \frac{9}{11} =$  ......

QUESTION 3 Work out the answers, as basic fractions, for the following.

$$a \frac{9}{20} \times \frac{3}{5} =$$

b 
$$\frac{2}{3} \times \frac{15}{16} =$$
\_\_\_\_\_

a 
$$\frac{9}{20} \times \frac{3}{5} =$$
 c  $\frac{3}{4} \times \frac{9}{11} =$  ...

d 
$$\frac{2}{3}$$
 of  $\frac{8}{9} =$ \_\_\_\_\_

e 
$$\frac{3}{4}$$
 of  $\frac{16}{21}$  = \_\_\_\_\_\_

e 
$$\frac{3}{4}$$
 of  $\frac{16}{21} =$  \_\_\_\_\_ f  $\frac{2}{5}$  of  $\frac{25}{36} =$  \_\_\_\_\_

$$g \frac{5}{6} \times \frac{18}{20} =$$

**h** 
$$\frac{1}{5} \times \frac{15}{16} = \underline{\hspace{1cm}}$$

g 
$$\frac{5}{6} \times \frac{18}{20} =$$
 \_\_\_\_\_ i  $\frac{3}{7} \times \frac{21}{24} =$  \_\_\_\_\_

$$j \frac{3}{10} \times \frac{20}{33} =$$
\_\_\_\_\_

$$k = \frac{5}{6} \times \frac{18}{19} = \underline{\hspace{1cm}}$$

$$\mathbf{j} = \frac{3}{10} \times \frac{20}{33} = \frac{1}{7} \times \frac{21}{26} = \frac{3}{7} \times \frac{21}{26} = \frac{3}{7} \times \frac{21}{26} = \frac{3}{10} \times \frac{21}{10} = \frac{3}{10} \times \frac{21}$$

QUESTION 4 Simplify the following.

a 
$$\frac{2}{3} \times 6 =$$
 \_\_\_\_\_

b 
$$\frac{4}{9} \times 27 =$$
\_\_\_\_\_

b 
$$\frac{4}{9} \times 27 =$$
 \_\_\_\_\_ c  $\frac{5}{6} \times 36 =$  \_\_\_\_\_

d 
$$\frac{8}{9} \times 54 =$$
\_\_\_\_\_

e 
$$\frac{7}{10} \times 100 =$$
 \_\_\_\_\_

e 
$$\frac{7}{10} \times 100 =$$
 \_\_\_\_\_ f  $\frac{5}{8} \times 72 =$  \_\_\_\_\_

$$g \frac{1}{5} \times 125 =$$

h 
$$\frac{1}{4} \times 48 =$$
\_\_\_\_\_

h 
$$\frac{1}{4} \times 48 =$$
 \_\_\_\_\_ i  $\frac{3}{7} \times 343 =$  \_\_\_\_\_

$$j \frac{4}{5} \times 200 =$$

$$k \frac{6}{13} \times 169 =$$

$$k \frac{6}{13} \times 169 =$$
  $I \frac{8}{9} \times 729 =$ 

#### Topic 7: Division of fractions

QUESTION 1 Divide the following fractions.

a 
$$\frac{2}{5} \div \frac{1}{5} =$$
 \_\_\_\_\_ b  $\frac{3}{7} \div \frac{3}{14} =$  \_\_\_\_\_ c  $\frac{9}{10} \div \frac{3}{10} =$  \_\_\_\_\_

b 
$$\frac{3}{7} \div \frac{3}{14} =$$
\_\_\_\_\_

$$c \frac{9}{10} \div \frac{3}{10} =$$

$$\mathbf{d} \quad \frac{3}{4} \div \frac{1}{4} = \underline{\hspace{1cm}}$$

$$e \frac{8}{9} \div \frac{2}{3} =$$
\_\_\_\_\_

$$g \quad \frac{7}{8} \div \frac{3}{4} = \underline{\hspace{1cm}}$$

$$h \frac{6}{15} \div \frac{3}{5} =$$

Find the answers to these divisions. QUESTION 2

$$a \quad \frac{5}{6} \div \frac{3}{12} = \underline{\hspace{1cm}}$$

b 
$$\frac{2}{9} \div \frac{9}{14} =$$
\_\_\_\_\_

a 
$$\frac{5}{6} \div \frac{3}{12} =$$
 c  $\frac{9}{10} \div \frac{3}{5} =$  ...

$$\frac{4}{5} \div \frac{3}{10} =$$

$$e \frac{7}{100} \div \frac{3}{20} =$$

$$g = \frac{8}{15} \div \frac{2}{15} =$$

h 
$$\frac{8}{27} \div \frac{4}{9} =$$
\_\_\_\_\_

g 
$$\frac{8}{15} \div \frac{2}{15} =$$
 i  $\frac{3}{8} \div \frac{9}{4} =$  ...

QUESTION 3 Work out the answers, as basic fractions, to the following.

$$a \frac{5}{6} \div \frac{10}{18} =$$

a 
$$\frac{5}{6} \div \frac{10}{18} =$$
 c  $\frac{16}{27} \div \frac{8}{54} =$  \_\_\_\_\_

d 
$$\frac{3}{8} \div \frac{9}{16} =$$
\_\_\_\_\_

$$\frac{18}{35} \div \frac{20}{49} =$$

$$g = \frac{5}{9} \div \frac{10}{18} = \underline{\hspace{1cm}}$$

$$h \frac{8}{13} \div \frac{24}{39} =$$

g 
$$\frac{5}{9} \div \frac{10}{18} =$$
 \_\_\_\_\_ i  $\frac{16}{23} \div \frac{8}{46} =$  \_\_\_\_\_

$$\mathbf{j} = \frac{8}{15} \div \frac{24}{25} = \mathbf{l} = \frac{48}{49} \div \frac{16}{7} = \mathbf{l}$$

$$k = \frac{9}{25} \div \frac{18}{50} = \underline{\hspace{1cm}}$$

$$\mathbf{I} = \frac{48}{49} \div \frac{16}{7} = \underline{\phantom{0}}$$

QUESTION 4 Evaluate the following.

a 
$$25 \div \frac{5}{9} =$$
\_\_\_\_\_

b 
$$26 \div \frac{13}{14} =$$
\_\_\_\_\_

a 
$$25 \div \frac{5}{9} =$$
 \_\_\_\_\_ b  $26 \div \frac{13}{14} =$  \_\_\_\_\_ c  $\frac{8}{36} \div 16 =$  \_\_\_\_\_

d 
$$18 \div \frac{9}{7} =$$
\_\_\_\_\_

e 
$$\frac{4}{9} \div \frac{28}{27} =$$
\_\_\_\_\_

d 
$$18 \div \frac{9}{7} =$$
 \_\_\_\_\_  $e \quad \frac{4}{9} \div \frac{28}{27} =$  \_\_\_\_\_  $f \quad 28 \div \frac{56}{60} =$  \_\_\_\_\_

$$g \frac{3}{4} \div \frac{12}{8} = \underline{\hspace{1cm}}$$

**h** 
$$15 \div \frac{21}{10} =$$

**h** 
$$15 \div \frac{21}{10} =$$
 **i**  $96 \div \frac{16}{25} =$  \_\_\_\_\_

$$j = \frac{15}{38} \div \frac{30}{19} = \underline{\hspace{1cm}}$$

$$k = \frac{9}{15} \div \frac{3}{5} = \underline{\hspace{1cm}}$$

$$k = \frac{9}{15} \div \frac{3}{5} =$$
 $I = \frac{9}{14} \div \frac{27}{28} = \frac{9}{14} \div \frac{27}{28} = \frac{9}{14} \div \frac{1}{14} = \frac{1}{14} = \frac{1}{14} \div \frac{1}{14} = \frac{1}{14} \div \frac{1}{14} = \frac{1}{14} \div \frac{1}{14} = \frac{1}{14} = \frac{1}{14} \div \frac{1}{14} = \frac{1}{14} = \frac{1}{14} \div \frac{1}{14} = \frac{1}{14}$ 

#### Topic 8: Finding a fraction of a number

Work out the answers to the following.

a 
$$\frac{1}{2}$$
 of \$50 = \_\_\_\_\_

**b** 
$$\frac{3}{5}$$
 of \$800 = \_\_\_\_\_

**b** 
$$\frac{3}{5}$$
 of \$800 = \_\_\_\_\_ **c**  $\frac{1}{10}$  of 20 hours = \_\_\_\_\_

d 
$$\frac{1}{3}$$
 of 1 hour = \_\_\_\_\_

e 
$$\frac{2}{5}$$
 of 1 tonne = \_\_\_\_\_

**d** 
$$\frac{1}{3}$$
 of 1 hour = \_\_\_\_\_ **e**  $\frac{2}{5}$  of 1 tonne = \_\_\_\_ **f**  $\frac{3}{5}$  of 400 = \_\_\_\_\_

$$g = \frac{9}{10}$$
 of 5 hours = \_\_\_\_\_

**h** 
$$\frac{3}{5}$$
 of 480 = \_\_\_\_\_

g 
$$\frac{9}{10}$$
 of 5 hours = \_\_\_\_\_ i  $\frac{3}{4}$  of 1 metre = \_\_\_\_\_

QUESTION 2 Find the following.

a 
$$\frac{7}{10}$$
 of 300 = \_\_\_\_\_

b 
$$\frac{2}{5}$$
 of  $40 =$  \_\_\_\_\_

**b** 
$$\frac{2}{5}$$
 of  $40 =$  \_\_\_\_\_ **c**  $\frac{3}{5}$  of  $80 =$  \_\_\_\_\_

d 
$$\frac{4}{9}$$
 of 8100 = \_\_\_\_\_

e 
$$\frac{5}{12}$$
 of 6 weeks = \_\_\_\_\_

e 
$$\frac{5}{12}$$
 of 6 weeks = \_\_\_\_\_ f  $\frac{5}{13}$  of 169 = \_\_\_\_\_

g 
$$\frac{7}{8}$$
 of  $1600 =$ \_\_\_\_\_

**h** 
$$\frac{8}{15}$$
 of \$9000 = \_\_\_\_\_

h 
$$\frac{8}{15}$$
 of \$9000 = \_\_\_\_\_ i  $\frac{1}{16}$  of 960 = \_\_\_\_\_

QUESTION 3 Work out the following.

a 
$$\frac{1}{4}$$
 of \$464 = \_\_\_\_\_

b 
$$\frac{1}{2}$$
 of 60 = \_\_\_\_\_

b 
$$\frac{1}{2}$$
 of  $60 =$  \_\_\_\_\_ c  $\frac{1}{3}$  of  $39 =$  \_\_\_\_\_

d 
$$\frac{2}{3}$$
 of 525 = \_\_\_\_\_

e 
$$\frac{3}{4}$$
 of 500 = \_\_\_\_\_

e 
$$\frac{3}{4}$$
 of 500 = \_\_\_\_\_ f  $\frac{3}{5}$  of 625 = \_\_\_\_\_

g 
$$\frac{5}{6}$$
 of \$216 = \_\_\_\_

$$h = \frac{5}{8}$$
 of \$512 = \_\_\_\_\_

h 
$$\frac{5}{8}$$
 of \$512 = \_\_\_\_\_ i  $\frac{9}{16}$  of 256 = \_\_\_\_\_

$$j = \frac{8}{15}$$
 of 360 = \_\_\_\_\_

$$k = \frac{9}{100}$$
 of  $10000 =$ \_\_\_\_\_

$$\mathbf{k} = \frac{9}{100} \text{ of } 10000 = \underline{\qquad} \qquad \mathbf{I} = \frac{5}{7} \text{ of } 343 = \underline{\qquad}$$

QUESTION 4 Evaluate the following.

a 
$$\frac{3}{4}$$
 of \$200 = \_\_\_\_\_

**b** 
$$\frac{3}{5}$$
 of 10 kg = \_\_\_\_\_

a 
$$\frac{3}{4}$$
 of \$200 = \_\_\_\_\_ b  $\frac{3}{5}$  of 10 kg = \_\_\_\_ c  $\frac{1}{3}$  of 60 years = \_\_\_\_\_

**d** 
$$\frac{2}{5}$$
 of 120 minutes = \_\_\_\_\_

e 
$$\frac{1}{8}$$
 of 24 hours = \_\_\_\_\_

e 
$$\frac{1}{8}$$
 of 24 hours = \_\_\_\_\_ f  $\frac{2}{3}$  of \$375 = \_\_\_\_\_

g 
$$\frac{4}{7}$$
 of 42 weeks = \_\_\_\_\_

**h** 
$$\frac{3}{7}$$
 of 1540 = \_\_\_\_\_

g 
$$\frac{4}{7}$$
 of 42 weeks = \_\_\_\_\_ i  $\frac{3}{5}$  of 10 metres = \_\_\_\_\_

j 
$$\frac{7}{25}$$
 of 1 century = \_\_\_\_\_

$$k = \frac{5}{9}$$
 of \$256 = \_\_\_\_\_

**j** 
$$\frac{7}{25}$$
 of 1 century = \_\_\_\_\_ **k**  $\frac{5}{8}$  of \$256 = \_\_\_\_\_ **I**  $\frac{5}{6}$  of 180 days = \_\_\_\_\_

#### Topic 9: Fractions with mixed numbers

QUESTION 1 Simplify the following.

a 
$$3+2\frac{1}{4}=$$

b 
$$1\frac{3}{5} + 2\frac{1}{4} =$$

a 
$$3+2\frac{1}{4} =$$
 \_\_\_\_\_ c  $8\frac{1}{2}+1\frac{3}{4} =$  \_\_\_\_\_

d 
$$5\frac{1}{10} + 2 =$$

e 
$$5\frac{1}{2} + 3\frac{1}{4} =$$
\_\_\_\_\_

**d** 
$$5\frac{1}{10} + 2 =$$
 \_\_\_\_\_ **e**  $5\frac{1}{2} + 3\frac{1}{4} =$  \_\_\_\_ **f**  $5\frac{3}{10} + 1\frac{2}{3} =$  \_\_\_\_\_

g 
$$4\frac{1}{4} + 2\frac{1}{2} =$$

**h** 
$$8\frac{3}{4} + 1\frac{1}{5} =$$

g 
$$4\frac{1}{6} + 2\frac{1}{3} =$$
 \_\_\_\_\_ i  $4\frac{8}{15} + 1\frac{2}{5} =$  \_\_\_\_\_

QUESTION 2 Work out the following.

a 
$$6\frac{3}{4}-2=$$

b 
$$8\frac{5}{6} - 4 =$$

b 
$$8\frac{5}{6}-4=$$
 c  $6\frac{7}{10}-2\frac{2}{5}=$ 

d 
$$8\frac{3}{8}-2\frac{5}{6}=$$

e 
$$6\frac{1}{2} - 2\frac{3}{4} =$$

e 
$$6\frac{1}{2} - 2\frac{3}{4} =$$
 f  $5\frac{7}{9} - 2\frac{2}{3} =$ 

$$g 9\frac{3}{10} - 6\frac{2}{5} =$$

**h** 
$$10\frac{2}{5} - 8\frac{1}{3} =$$

h 
$$10\frac{2}{5} - 8\frac{1}{3} =$$
 \_\_\_\_\_ i  $5\frac{4}{5} - 2\frac{2}{3} =$  \_\_\_\_

QUESTION 3 Find the following.

a 
$$1\frac{1}{2} \times \frac{2}{3} =$$
\_\_\_\_\_

b 
$$4\frac{1}{2} \times 5\frac{1}{3} =$$
\_\_\_\_\_

b 
$$4\frac{1}{2} \times 5\frac{1}{3} =$$
 c  $8\frac{1}{4} \times 2\frac{1}{2} =$ 

d 
$$\frac{6}{7} \times 2\frac{2}{5} =$$
\_\_\_\_\_

e 
$$1\frac{1}{3} \times 2\frac{3}{5} =$$
\_\_\_\_\_

e 
$$1\frac{1}{3} \times 2\frac{3}{5} =$$
 f  $5\frac{3}{8} \times 2\frac{1}{4} =$  \_\_\_\_\_

$$g \quad 2\frac{3}{8} \times 3\frac{1}{4} = \underline{\hspace{1cm}}$$

**h** 
$$5\frac{3}{9} \times 2\frac{1}{2} =$$

h 
$$5\frac{3}{9} \times 2\frac{1}{2} =$$
 i  $1\frac{1}{2} \times 2\frac{1}{2} =$  \_\_\_\_\_

$$\mathbf{j} = 1\frac{2}{3} \times 3\frac{1}{3} = \underline{\phantom{0}}$$

$$k \quad 2\frac{2}{3} \times 1\frac{1}{4} = \underline{\hspace{1cm}}$$

**k** 
$$2\frac{2}{3} \times 1\frac{1}{4} =$$
 **I**  $5\frac{1}{2} \times 3\frac{1}{4} =$  \_\_\_\_\_

QUESTION 4 Evaluate the following.

a 
$$2\frac{3}{5} \div \frac{3}{4} =$$

b 
$$3\frac{1}{2} \div \frac{1}{3} =$$
\_\_\_\_\_

b 
$$3\frac{1}{2} \div \frac{1}{3} =$$
 c  $5\frac{3}{4} \div \frac{1}{5} =$ 

**d** 
$$2\frac{3}{4} \div 1\frac{1}{2} =$$
\_\_\_\_\_

e 
$$5\frac{3}{8} \div 4\frac{1}{2} =$$
\_\_\_\_\_

e 
$$5\frac{3}{8} \div 4\frac{1}{2} =$$
 f  $8\frac{1}{2} \div 2\frac{1}{4} =$  \_\_\_\_\_

g 
$$12\frac{1}{2} \div 1\frac{3}{4} =$$
\_\_\_\_\_

h 
$$8\frac{3}{5} \div 2\frac{1}{10} =$$
\_\_\_\_\_

**h** 
$$8\frac{3}{5} \div 2\frac{1}{10} =$$
 **i**  $5\frac{3}{5} \div 1\frac{1}{2} =$  \_\_\_\_\_

$$\mathbf{j} = 8\frac{1}{4} \div 1\frac{1}{4} = \underline{\phantom{0}}$$

$$9\frac{3}{4} \div 1\frac{1}{3} =$$

$$\mathbf{k} \quad 9\frac{3}{4} \div 1\frac{1}{3} = \underline{\qquad} \qquad \mathbf{I} \quad 12\frac{1}{2} \div 3\frac{1}{2} = \underline{\qquad}$$

#### **Topic 10: Problem solving with fractions**

- **1** Find the sum of  $\frac{3}{5}$ ,  $\frac{3}{8}$  and  $\frac{3}{10}$ .
- **2** Divide the sum of  $\frac{8}{9}$  and  $\frac{7}{10}$  by  $\frac{1}{4}$ .
- **3** Subtract the difference of  $\frac{1}{3}$  and  $\frac{1}{4}$  from the sum of  $\frac{1}{3}$  and  $\frac{1}{4}$ .
- **4** What fraction is 80 cm of 4 m? \_\_\_\_\_
- **5** How many sixths are in 5?
- **6** A shool year consists of 40 weeks. At the end of week 32, what fraction of the school year is over?
- **7** A class has 16 girls and 12 boys. What fraction of the class is girls?
- **8** Find the difference between  $30\frac{5}{6}$  and  $8\frac{1}{2}$  and multiply this result by  $3\frac{1}{4}$ .
- **9** A square has a side of  $2\frac{3}{4}$  cm. Find its area.
- **10** In a school of 1200 students,  $\frac{5}{8}$  are girls. How many students are girls?
- 11 If  $\frac{3}{4}$  of a cake is shared equally among 6 people, what fraction of the cake would each receive?
- **12** A car tank when  $\frac{2}{3}$  full contains 48 litres. What is the capacity of the tank?
- **13** A rectangle has length  $3\frac{1}{2}$  cm and width  $2\frac{1}{4}$  cm. Find the perimeter of the rectangle.
- **14** An aeroplane flew 1600 km in  $2\frac{1}{4}$  hours. What was its average speed?
- **15** How many pieces of wood, each  $1\frac{1}{4}$  metres long, can be cut from a board  $12\frac{1}{2}$  metres long?

**Topic Test** PART A

**Instructions** 

This part consists of 12 multiple-choice questions

Each question is worth 1 mark

Fill in only ONE CIRCLE for each question

Calculators are NOT allowed

Time allowed: 15 minutes

Total marks = 12

**1** 9 +  $\frac{9}{10}$  equals

- (A)  $9\frac{3}{10}$  (B)  $9\frac{9}{10}$
- ©  $9\frac{1}{10}$
- **(D)**

1

Marks

2  $1 - \frac{60}{1000}$  equals

- $\triangle$   $\frac{1060}{1000}$
- **B**  $\frac{900}{1000}$
- $\bigcirc$   $\frac{47}{50}$
- **D**

1

3  $\frac{1}{9} \times \frac{1}{9}$  equals

- (A)  $\frac{1}{81}$  (B)  $\frac{1}{9}$
- $\bigcirc$   $\frac{2}{9}$
- (D) none of these

1

**4**  $4\frac{1}{4} + 2\frac{1}{2}$  equals

- (A)  $5\frac{1}{4}$
- **B**  $6\frac{3}{4}$
- $\bigcirc$  5 $\frac{5}{9}$
- **(D)**  $7\frac{3}{4}$

1

5  $18 \times \frac{5}{6}$  equals

- **(A)** 25
- **B** 10
- **©** 15
- (1)  $21\frac{3}{5}$

1

 $\mathbf{6} \qquad \frac{4}{5} + \frac{5}{4} \text{ equals}$ 

- (A)  $2\frac{1}{2}$  (B)  $1\frac{3}{5}$
- ©  $2\frac{3}{5}$
- $\bigcirc$  2 $\frac{1}{20}$

1

**7**  $2\frac{1}{3}-1\frac{1}{2}$  equals

- (A)  $\frac{5}{6}$

- **(D)**  $1\frac{1}{3}$

1

## **Topic Test**

#### PART A continued

Marks

**8**  $\frac{4}{13}$  of 26 equals

- **(A)** 4
- **B** 6
- **©** 8
- **(D)** 10

1

**9**  $4\frac{2}{5} + 1\frac{1}{4}$  equals

- (A)  $3\frac{7}{20}$  (B)  $5\frac{13}{20}$  (C)  $6\frac{9}{20}$
- $\bigcirc$  7 $\frac{11}{20}$

1

**10**  $\frac{1}{4} + \frac{1}{10}$  equals

- (A)  $\frac{3}{40}$  (B)  $\frac{1}{20}$
- $\bigcirc$   $\frac{7}{20}$
- ①  $\frac{9}{20}$

1

 $11 \qquad \frac{\frac{3}{4} + \frac{2}{4}}{\frac{5}{4}} =$ 

- **(C)** 1
- $(\mathbf{D})$  2

1

Which of the following numbers is the largest?

- (A)  $\frac{3}{4}$  (B)  $\frac{4}{5}$
- $\bigcirc$   $\frac{3}{7}$
- ①  $\frac{6}{10}$

1

13  $\frac{3}{5}$  of a number is 6. What is the number?

- **(A)** 8
- **B** 10
- **(C)** 12
- **(D)** 18

1

**14**  $\frac{5}{8} \times \frac{24}{25}$  equals

- (A)  $\frac{15}{200}$  (B)  $\frac{24}{200}$
- $\bigcirc$   $\frac{2}{5}$
- ①  $\frac{3}{5}$

1

 $15 \quad \frac{6}{1 - \frac{5}{6}} \text{ equals}$ 

- **(A)** 12
- **(B)** 18
- **(C)** 24
- **(D)** 36

1

Total marks achieved for PART A

Topic Test PART B

Instructions

This part consists of 15 questions

Each question is worth 1 mark

Write answers in the answers-only column

Time allowed: 20 minutes

**Total marks = 15** 

11111	e anowed: 20 minutes	iotai mark	5 - 15
	Questions	Answers only	Marks
1	$\frac{9}{16} = {96}$		1
2	Simplify $\frac{36}{216}$		1
3	Simplify $9\frac{3}{9}$ , leaving the answer as a mixed number.		1
4	Write $8\frac{3}{5}$ as an improper fraction.		1
5	Write $\frac{58}{7}$ as a mixed number.		1
6	$\frac{7}{20} + \frac{3}{20} =$		1
7	$\frac{43}{90} - \frac{12}{90} =$		1
8	$\frac{5}{6} + \frac{7}{9} =$		1
9	$\frac{9}{16} - \frac{1}{4} =$		1
10	$\frac{8}{9} \times \frac{12}{9} =$		1
11	$\frac{15}{28} \times \frac{7}{25} =$		1
12	$\frac{8}{27} \div \frac{16}{36} =$		1
13	$42 \div \frac{7}{9} =$		1
14	$\left[\frac{32}{45} \div \frac{16}{9}\right] \div \frac{5}{6} =$		1
15	$8\frac{2}{3} \times \frac{5}{13} =$		1

Total marks achieved for PART B



#### **Topic Test** PART C

Instructions

This part consists of 4 questions

Each question is worth 5 marks

Show all necessary

Time allowed: 20 minutes

Total marks = 20

Questions

Complete the equivalent fractions.

a 
$$\frac{5}{8} = \frac{}{64}$$

**b** 
$$\frac{3}{20} = \frac{9}{}$$

$$c = \frac{4}{5} = \frac{4}{125}$$

d 
$$\frac{40}{30} = \frac{40}{150}$$

$$e - \frac{5}{36} = \frac{60}{36}$$

5

Marks

**2** Write the following fractions in simplest form.

$$a \frac{120}{340} = ----$$

b 
$$\frac{88}{121} = ----$$

c 
$$\frac{125}{625} = ----$$

d 
$$\frac{70}{98} = ----$$

$$e^{-\frac{85}{100}} = ----$$

5

Simplify the following fractions.

$$a \frac{9}{44} - \frac{5}{44} =$$

a 
$$\frac{9}{44} - \frac{5}{44} =$$
 c  $\frac{12}{45} \times \frac{4}{300} =$  \_\_\_\_\_

$$c \frac{12}{45} \times \frac{4}{300} =$$

d 
$$\frac{8}{35} \div \frac{72}{14} =$$
 e  $\frac{10}{15} \times \frac{25}{200} =$ 

$$\frac{10}{15} \times \frac{25}{200} =$$

5

**4** Work out the following.

a 
$$\frac{7}{9}$$
 of \$63 = \_\_\_\_\_

**a** 
$$\frac{7}{9}$$
 of \$63 = \_\_\_\_\_ **b**  $\frac{7}{50}$  of 200 km = \_\_\_\_ **c**  $8\frac{3}{4} + 9\frac{2}{5} = _____$ 

c 
$$8\frac{3}{4} + 9\frac{2}{5} =$$

**d** 
$$3\frac{5}{6} \div 2\frac{1}{2} =$$

d 
$$3\frac{5}{6} \div 2\frac{1}{2} =$$
 e  $15\frac{1}{2} - 13\frac{3}{4} =$  \_\_\_\_\_

5