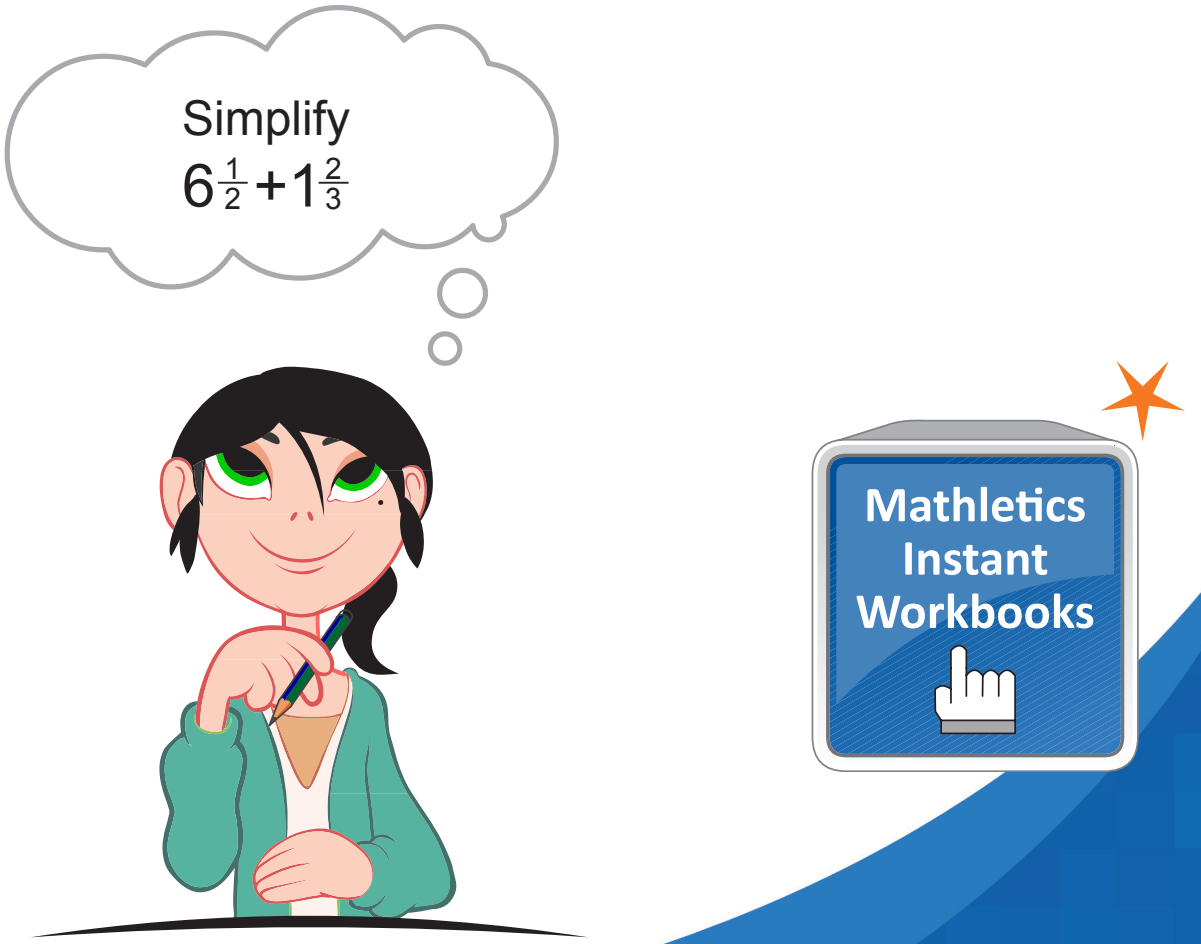
MATHLETICS
Inspiring Better Results

# Fractions

Student Book - Series H-1



# Fractions
# Student Book - Series H

Contents



Author of The Topics and Topic Tests: AS Kalra

# Fractions

## Topic 1: Equivalent fractions

**QUESTION 1** Complete the following to make equivalent fractions.

**a** $\frac{1}{2} = \frac{\quad}{4}$ **b** $\frac{1}{3} = \frac{\quad}{6}$ **c** $\frac{1}{5} = \frac{\quad}{10}$ **d** $\frac{1}{10} = \frac{\quad}{100}$

**e** $\frac{7}{10} = \frac{\quad}{50}$ **f** $\frac{1}{5} = \frac{\quad}{100}$ **g** $\frac{3}{5} = \frac{\quad}{40}$ **h** $\frac{3}{4} = \frac{\quad}{16}$

**i** $\frac{2}{7} = \frac{\quad}{21}$ **j** $\frac{3}{8} = \frac{\quad}{64}$ **k** $\frac{5}{6} = \frac{\quad}{24}$ **l** $\frac{4}{7} = \frac{\quad}{35}$

**m** $\frac{7}{8} = \frac{\quad}{24}$ **n** $\frac{2}{9} = \frac{\quad}{81}$ **o** $\frac{3}{4} = \frac{\quad}{20}$ **p** $\frac{2}{3} = \frac{8}{\quad}$

**QUESTION 2** Find the missing number to complete the equation.

**a** $\frac{5}{20} = \frac{\quad}{4}$ **b** $\frac{18}{36} = \frac{1}{\quad}$ **c** $\frac{8}{20} = \frac{4}{\quad}$ **d** $\frac{16}{20} = \frac{4}{\quad}$

**e** $\frac{14}{20} = \frac{\quad}{10}$ **f** $\frac{1}{4} = \frac{\quad}{100}$ **g** $\frac{6}{14} = \frac{3}{\quad}$ **h** $\frac{12}{36} = \frac{1}{\quad}$

**i** $\frac{5}{9} = \frac{30}{\quad}$ **j** $\frac{3}{8} = \frac{24}{\quad}$ **k** $\frac{2}{9} = \frac{\quad}{90}$ **l** $\frac{3}{7} = \frac{30}{\quad}$

**QUESTION 3** Complete these equivalent fractions.

**a** $\frac{3}{4} = \frac{\quad}{64}$ **b** $\frac{\quad}{96} = \frac{6}{24}$ **c** $\frac{7}{9} = \frac{28}{\quad}$ **d** $\frac{4}{5} = \frac{\quad}{250}$

**e** $\frac{\quad}{20} = \frac{16}{80}$ **f** $\frac{12}{\quad} = \frac{3}{8}$ **g** $\frac{7}{8} = \frac{\quad}{64}$ **h** $\frac{15}{20} = \frac{3}{\quad}$

# Fractions

## Topic 2: Simplifying fractions

**QUESTION 1** Write the following fractions in simplest form.

**a** $\frac{10}{20} = \_\_$ **b** $\frac{30}{50} = \_\_$ **c** $\frac{80}{100} = \_\_$ **d** $\frac{10}{25} = \_\_$

**e** $\frac{4}{32} = \_\_$ **f** $\frac{8}{12} = \_\_$ **g** $\frac{12}{36} = \_\_$ **h** $\frac{24}{48} = \_\_$

**i** $\frac{6}{32} = \_\_$ **j** $\frac{9}{81} = \_\_$ **k** $\frac{8}{56} = \_\_$ **l** $\frac{32}{48} = \_\_$

**QUESTION 2** Write in simplest form.

a $\frac{104}{200} = \_\_\_\_\_$ **b** $\frac{136}{512} = \_\_\_\_\_$ **c** $\frac{38}{57} = \_\_\_\_\_$ **d** $\frac{46}{48} = \_\_\_\_\_$

**e** $\frac{27}{36} = \_\_\_\_\_$ **f** $\frac{32}{44} = \_\_\_\_\_$ **g** $\frac{88}{99} = \_\_\_\_\_$ **h** $\frac{16}{64} = \_\_\_\_\_$

**i** $\frac{36}{84} = \_\_\_\_\_$ **j** $\frac{20}{84} = \_\_\_\_\_$ **k** $\frac{38}{58} = \_\_\_\_\_$ **l** $\frac{25}{625} = \_\_\_\_\_$

**m** $\frac{49}{147} = \_\_\_\_\_$ **n** $\frac{60}{75} = \_\_\_\_\_$ **o** $\frac{70}{84} = \_\_\_\_\_$ **p** $\frac{16}{128} = \_\_\_\_\_$

**QUESTION 3** Write in simplest form, leaving as mixed numbers.

**a** $2\frac{6}{8} = \_\_\_\_\_$ **b** $5\frac{8}{16} = \_\_\_\_\_$ **c** $9\frac{3}{6} = \_\_\_\_\_$ **d** $4\frac{5}{30} = \_\_\_\_\_$

**e** $3\frac{4}{16} = \_\_\_\_\_$ **f** $7\frac{10}{20} = \_\_\_\_\_$ **g** $5\frac{8}{12} = \_\_\_\_\_$ **h** $8\frac{3}{12} = \_\_\_\_\_$

# Fractions

## 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** $\frac{5}{6}$ _____ **c** $\frac{41}{35}$ _____ **d** $\frac{2}{9}$ _____

**e** $5\frac{3}{4}$ _____ **f** $1\frac{1}{2}$ _____ **g** $5\frac{1}{4}$ _____ **h** $9\frac{2}{3}$ _____

**i** $\frac{17}{6}$ _____ **j** $\frac{1}{12}$ _____ **k** $\frac{41}{5}$ _____ **l** $\frac{11}{13}$ _____

**m** $\frac{2}{5}$ _____ **n** $\frac{8}{9}$ _____ **o** $6\frac{3}{4}$ _____ **p** $\frac{18}{4}$ _____

**QUESTION 2** Write each mixed number as an improper fraction.

**a** $1\frac{2}{5} =$ ____ **b** $3\frac{5}{8} =$ ____ **c** $7\frac{8}{9} =$ ____ **d** $2\frac{5}{6} =$ ____

**e** $10\frac{1}{2} =$ ____ **f** $21\frac{2}{3} =$ ____ **g** $5\frac{3}{4} =$ ____ **h** $8\frac{1}{5} =$ ____

**i** $30\frac{2}{3} =$ ____ **j** $10\frac{3}{11} =$ ____ **k** $7\frac{1}{7} =$ ____ **l** $1\frac{9}{10} =$ ____

**m** $5\frac{1}{6} =$ ____ **n** $30\frac{1}{7} =$ ____ **o** $2\frac{7}{9} =$ ____ **p** $5\frac{1}{7} =$ ____

**QUESTION 3** Write each improper fraction as a mixed number.

**a** $\frac{10}{7} =$ _____ **b** $\frac{5}{2} =$ _____ **c** $\frac{7}{3} =$ _____ **d** $\frac{9}{4} =$ _____

**e** $\frac{20}{13} =$ _____ **f** $\frac{35}{2} =$ _____ **g** $\frac{84}{9} =$ _____ **h** $\frac{36}{7} =$ _____

**i** $\frac{41}{8} =$ _____ **j** $\frac{49}{5} =$ _____ **k** $\frac{63}{8} =$ _____ **l** $\frac{52}{7} =$ _____

# Fractions

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

**QUESTION 1** Add or subtract the following fractions.

**a** $\frac{2}{10}+\frac{5}{10}=$ _____ **b** $\frac{1}{5}+\frac{2}{5}=$ _____ **c** $\frac{3}{8}+\frac{2}{8}=$ _____

**d** $\frac{3}{20}+\frac{4}{20}=$ _____ **e** $\frac{1}{8}+\frac{1}{8}=$ _____ **f** $\frac{5}{7}-\frac{1}{7}=$ _____

**g** $\frac{2}{9}+\frac{5}{9}=$ _____ **h** $\frac{3}{7}+\frac{2}{7}=$ _____ **i** $\frac{5}{9}+\frac{2}{9}=$ _____

**j** $\frac{8}{11}-\frac{6}{11}=$ _____ **k** $\frac{5}{22}-\frac{3}{22}=$ _____ **l** $\frac{2}{9}-\frac{1}{9}=$ _____

**m** $\frac{7}{12}-\frac{3}{12}=$ _____ **n** $\frac{8}{33}+\frac{4}{33}$ _____ **o** $\frac{5}{9}-\frac{2}{9}=$ _____

**QUESTION 2** Add or subtract the following fractions, giving answers as mixed numbers.

**a** $\frac{4}{10}+\frac{7}{10}=$ _____ **b** $\frac{3}{4}+\frac{3}{4}=$ _____ **c** $\frac{4}{5}+\frac{3}{5}=$ _____

**d** $\frac{17}{20}+\frac{8}{20}=$ _____ **e** $\frac{19}{10}-\frac{3}{10}=$ _____ **f** $\frac{45}{38}-\frac{1}{38}=$ _____

**g** $\frac{6}{5}+\frac{8}{5}=$ _____ **h** $\frac{13}{10}-\frac{2}{10}=$ _____ **i** $\frac{48}{20}-\frac{21}{20}=$ _____

**j** $\frac{17}{3}-\frac{10}{3}=$ _____ **k** $\frac{15}{7}-\frac{4}{7}=$ _____ **l** $\frac{27}{10}-\frac{12}{10}=$ _____

**m** $\frac{251}{100}-\frac{50}{100}=$ _____ **n** $\frac{1361}{1000}-\frac{261}{1000}=$ _____ **o** $\frac{18}{11}-\frac{5}{11}=$ _____

# Fractions

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

**Question 1** Work out the addition or subtraction of the following fractions.

**a** $\frac{1}{2}+\frac{1}{6}=$ _____ **b** $\frac{1}{4}+\frac{1}{20}=$ _____ **c** $\frac{1}{5}+\frac{3}{4}=$ _____

**d** $\frac{1}{2}-\frac{1}{4}=$ _____ **e** $\frac{1}{3}-\frac{1}{6}=$ _____ **f** $\frac{2}{3}-\frac{1}{6}=$ _____

**g** $\frac{1}{2}+\frac{1}{3}=$ _____ **h** $\frac{1}{3}+\frac{1}{4}=$ _____ **i** $\frac{1}{5}+\frac{1}{7}=$ _____

**j** $\frac{1}{3}-\frac{1}{4}=$ _____ **k** $\frac{1}{5}-\frac{1}{12}=$ _____ **l** $\frac{1}{4}-\frac{1}{8}=$ _____

**Question 2** Find the value of:

**a** $\frac{7}{10}+\frac{2}{5}=$ _____ **b** $\frac{3}{5}+\frac{7}{15}=$ _____ **c** $\frac{1}{2}+\frac{3}{5}=$ _____

**d** $\frac{3}{4}-\frac{1}{3}=$ _____ **e** $\frac{3}{4}-\frac{1}{2}=$ _____ **f** $\frac{8}{15}+\frac{3}{5}=$ _____

**g** $\frac{2}{3}+\frac{3}{4}=$ _____ **h** $\frac{3}{4}+\frac{4}{5}=$ _____ **i** $\frac{4}{5}+\frac{5}{6}=$ _____

**j** $\frac{3}{4}+\frac{1}{2}=$ _____ **k** $\frac{3}{4}+\frac{1}{3}=$ _____ **l** $\frac{3}{4}+\frac{1}{5}=$ _____

**Question 3** Evaluate:

**a** $\frac{3}{5}-\frac{3}{10}=$ _____ **b** $\frac{3}{4}-\frac{7}{20}=$ _____ **c** $\frac{1}{3}-\frac{1}{5}=$ _____

**d** $\frac{93}{100}-\frac{3}{4}=$ _____ **e** $\frac{81}{100}-\frac{3}{4}=$ _____ **f** $\frac{11}{20}-\frac{7}{20}=$ _____

**g** $\frac{7}{18}-\frac{1}{3}=$ _____ **h** $\frac{5}{6}+\frac{1}{12}=$ _____ **i** $\frac{7}{36}-\frac{1}{12}=$ _____

# Fractions

## Topic 6: Multiplication of fractions

**Question 1** Multiply the following fractions.

**a** $\frac{1}{2} \times \frac{1}{2} =$ _____ **b** $\frac{1}{3} \times \frac{1}{4} =$ _____ **c** $\frac{1}{4} \times \frac{1}{7} =$ _____

**d** $\frac{1}{10} \times \frac{1}{10} =$ _____ **e** $\frac{3}{10} \times \frac{11}{10} =$ _____ **f** $\frac{7}{10} \times \frac{3}{10} =$ _____

**g** $\frac{9}{10} \times \frac{3}{10} =$ _____ **h** $\frac{3}{100} \times \frac{1}{10} =$ _____ **i** $\frac{9}{10} \times \frac{3}{200} =$ _____

**j** $\frac{1}{4} \times \frac{1}{5} =$ _____ **k** $\frac{1}{4} \times \frac{1}{9} =$ _____ **l** $\frac{1}{4} \times \frac{5}{6} =$ _____

**Question 2** Work out the answers to the following as basic fractions.

**a** $\frac{9}{10} \times \frac{5}{9} =$ _____ **b** $\frac{1}{2} \times \frac{4}{5} =$ _____ **c** $\frac{2}{3} \times \frac{9}{13} =$ _____

**d** $\frac{1}{3}$ of $\frac{6}{7} =$ _____ **e** $\frac{1}{4}$ of $\frac{4}{15} =$ _____ **f** $\frac{2}{3}$ of $\frac{6}{7} =$ _____

**g** $\frac{4}{5} \times \frac{7}{8} =$ _____ **h** $\frac{1}{2} \times \frac{2}{5} =$ _____ **i** $\frac{6}{15} \times \frac{7}{12} =$ _____

**Question 3** Simplify the following.

**a** $\frac{5}{8} \times 8 =$ _____ **b** $\frac{3}{4} \times 4 =$ _____ **c** $\frac{5}{6} \times 6 =$ _____

**d** $\frac{2}{3} \times \frac{1}{2} =$ _____ **e** $\frac{12}{13} \times 13 =$ _____ **f** $\frac{5}{7} \times 7 =$ _____

**g** $\frac{7}{10} \times 10 =$ _____ **h** $\frac{5}{4} \times 24 =$ _____ **i** $\frac{8}{9} \times 63 =$ _____

**j** $\frac{12}{20} \times 40 =$ _____ **k** $\frac{6}{15} \times 90 =$ _____ **l** $\frac{24}{36} \times 12 =$ _____

# Fractions

## Topic 7: Division of fractions

**Question 1** Divide the following fractions.

**a** $\frac{2}{3} \div \frac{1}{3} =$ _____ **b** $\frac{3}{5} \div \frac{2}{5} =$ _____ **c** $\frac{7}{20} \div \frac{8}{20} =$ _____

**d** $\frac{11}{10} \div \frac{3}{10} =$ _____ **e** $\frac{7}{10} \div \frac{1}{2} =$ _____ **f** $\frac{3}{100} \div \frac{1}{20} =$ _____

**g** $\frac{3}{4} \div \frac{1}{2} =$ _____ **h** $\frac{3}{2} \div \frac{3}{4} =$ _____ **i** $\frac{2}{9} \div \frac{9}{10} =$ _____

**j** $\frac{5}{6} \div \frac{5}{12} =$ _____ **k** $\frac{4}{5} \div \frac{4}{10} =$ _____ **l** $\frac{5}{7} \div \frac{15}{28} =$ _____

**Question 2** Work out the answers to the following as basic fractions.

**a** $\frac{3}{4} \div \frac{1}{10} =$ _____ **b** $\frac{2}{5} \div \frac{3}{20} =$ _____ **c** $\frac{5}{6} \div \frac{7}{24} =$ _____

**d** $\frac{1}{2} \div \frac{1}{6} =$ _____ **e** $\frac{7}{10} \div \frac{3}{28} =$ _____ **f** $\frac{5}{10} \div \frac{3}{100} =$ _____

**g** $\frac{5}{6} \div \frac{7}{18} =$ _____ **h** $\frac{3}{4} \div \frac{5}{32} =$ _____ **i** $\frac{2}{5} \div \frac{3}{25} =$ _____

**Question 3** Evaluate the following.

**a** $8 \div \frac{4}{5} =$ _____ **b** $16 \div \frac{2}{3} =$ _____ **c** $\frac{8}{9} \div 4 =$ _____

**d** $\frac{3}{5} \div 3 =$ _____ **e** $\frac{7}{15} \div 14 =$ _____ **f** $63 \div \frac{7}{9} =$ _____

**g** $14 \div \frac{7}{2} =$ _____ **h** $81 \div \frac{9}{16} =$ _____ **i** $72 \div \frac{9}{4} =$ _____

# Fractions

## Topic 8: Finding a fraction of a number

**QUESTION 1** Work out the answers to the following.

**a** $\frac{1}{3}$ of \$27 = _____ **b** $\frac{3}{4}$ of \$400 = _____ **c** $\frac{1}{5}$ of 10 hours = _____

**d** $\frac{2}{3}$ of 1 hour = _____ **e** $\frac{3}{5}$ of 1 tonne = _____ **f** $\frac{3}{5}$ of 200 grams = _____

**g** $\frac{7}{10}$ of 2 hours = _____ **h** $\frac{2}{5}$ of 1 year = _____ **i** $\frac{2}{5}$ of 1 metre = _____

**j** $\frac{3}{5}$ of \$75 = _____ **k** $\frac{3}{8}$ of \$64 = _____ **l** $\frac{1}{5}$ of 1 kg = _____

**QUESTION 2** Find the following.

**a** $\frac{1}{2}$ of 62 = _____ **b** $\frac{1}{5}$ of 120 = _____ **c** $\frac{4}{5}$ of \$175 = _____

**d** $\frac{19}{100}$ of 700 = _____ **e** $\frac{5}{12}$ of 120 = _____ **f** $\frac{1}{16}$ of 480 = _____

**g** $\frac{5}{16}$ of 80 = _____ **h** $\frac{1}{8}$ of 1 day = _____ **i** $\frac{1}{4}$ of 60 minutes = _____

**QUESTION 3** Work out the following.

**a** $\frac{3}{4}$ of \$88 = _____ **b** $\frac{3}{5}$ of 240 = _____ **c** $\frac{2}{7}$ of 770 = _____

**d** $\frac{2}{5}$ of 55 = _____ **e** $\frac{3}{5}$ of 600 = _____ **f** $\frac{1}{3}$ of 270 = _____

**g** $\frac{7}{100}$ of 1 century = _____ **h** $\frac{1}{4}$ of 52 weeks = _____ **i** $\frac{2}{5}$ of 2 km = _____

# Fractions

## Topic 9: Fractions with mixed numbers

**Question 1** Simplify the following.

**a** $3\frac{1}{2}+5=$ _____ **b** $6+2\frac{1}{4}=$ _____ **c** $2+3\frac{1}{5}=$ _____

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

**g** $2\frac{3}{5}+\frac{1}{2}=$ _____ **h** $7-3\frac{4}{5}=$ _____ **i** $14\frac{1}{2}-7=$ _____

**j** $7\frac{2}{5}-4=$ _____ **k** $6\frac{7}{8}-5\frac{1}{8}=$ _____ **l** $9\frac{3}{10}-4\frac{3}{10}=$ _____

**Question 2** Work out the following.

**a** $5\frac{1}{2}-\frac{3}{4}=$ _____ **b** $5\frac{3}{8}-2\frac{3}{4}=$ _____ **c** $12\frac{3}{10}-5\frac{2}{3}=$ _____

**d** $4\frac{7}{8}\times 4=$ _____ **e** $1\frac{1}{2}\times\frac{1}{4}=$ _____ **f** $3\frac{7}{8}\times 1\frac{1}{2}=$ _____

**g** $3\frac{1}{7}\times 6\frac{1}{5}=$ _____ **h** $2\frac{1}{2}\times 3\frac{1}{2}=$ _____ **i** $1\frac{1}{2}\times 5\frac{2}{3}=$ _____

**Question 3** Find the following.

**a** $6\frac{3}{5}\ \ \frac{2}{5}=$ _____ **b** $4\frac{2}{5}\ \ \frac{7}{8}=$ _____ **c** $3\frac{3}{8}\ \ 2\frac{3}{4}=$ _____

**d** $20\frac{1}{2}\ \ 3\frac{1}{2}=$ _____ **e** $5\frac{1}{2}\ \ 2\frac{1}{2}=$ _____ **f** $3\frac{3}{4}\ \ 1\frac{1}{4}=$ _____

**g** $2\frac{3}{5}\ \ 1\frac{1}{5}=$ _____ **h** $5\frac{5}{8}\ \ 1\frac{1}{4}=$ _____ **i** $3\frac{1}{2}\ \ 3\frac{1}{2}=$ _____

# Fractions

## Topic 10: Problem solving with fractions

**1** Find the sum of $\frac{2}{5}$, $\frac{3}{4}$ and $\frac{1}{10}$ _____

**2** Divide the sum of $\frac{7}{8}$ and $\frac{3}{10}$ by $\frac{1}{2}$ _____

**3** Subtract the difference between $\frac{1}{2}$ and $\frac{1}{3}$ from the sum of $\frac{1}{2}$ and $\frac{1}{3}$ _____

**4** In a school of 800 students, $\frac{1}{5}$ of the students have brown eyes. How many do not have brown eyes? _____

**5** If $\frac{2}{3}$ of a cake is shared equally among four people, what fraction of the cake would each receive? _____

**6** Find the difference between $20\frac{3}{4}$ and $9\frac{1}{2}$ and multiply this by $2\frac{1}{3}$ _____

**7** A rectangle has length $3\frac{1}{4}$ cm and width $1\frac{3}{4}$ cm. Find the perimeter of the rectangle. _____

**8** A car tank when $\frac{3}{4}$ full contains 45 litres. What is the capacity of the tank? _____

**9** Alka bought $3\frac{2}{5}$ kg of apples on one day and $4\frac{3}{4}$ kg the next day. How many kilograms of apples did she buy in all? _____

**10** An aeroplane flew 1200 km in $2\frac{3}{4}$ hours. What was its average speed? _____

**11** How many pieces of wood each $1\frac{1}{3}$ metres long can be cut from a board 8 metres long? _____

**12** A square has side length $5\frac{3}{4}$ cm. Find its area. _____

**13** Hari works for $3\frac{1}{2}$ hours on Saturday and $5\frac{2}{5}$ hours on Sunday. Find the total number of hours he works. _____

# Fractions

## Unit 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**

Marks

**1** $7+\frac{7}{10}$ equals

Ⓐ $7\frac{3}{10}$ Ⓑ $7\frac{7}{10}$ Ⓒ $7\frac{1}{10}$ Ⓓ $\frac{107}{10}$

**2** $1-\frac{80}{1000}$ equals

Ⓐ $\frac{1080}{1000}$ Ⓑ $\frac{900}{1000}$ Ⓒ $\frac{23}{25}$ Ⓓ $\frac{24}{25}$ 1

**3** $\frac{1}{5}$ of 35 + 16 equals

Ⓐ 21 Ⓑ 27 Ⓒ 23 Ⓓ 28

**4** $\frac{1}{2}+\frac{1}{3}$ equals

Ⓐ $\frac{1}{5}$ Ⓑ $\frac{5}{6}$ Ⓒ $\frac{1}{6}$ Ⓓ $\frac{2}{3}$

**5** The value of $\frac{1}{2}+\frac{3}{4}+\frac{5}{6}$ is

Ⓐ $2\frac{1}{12}$ Ⓑ $3\frac{5}{12}$ Ⓒ $2\frac{7}{12}$ Ⓓ $\frac{15}{24}$

**6** $\frac{3}{4}+\frac{4}{3}$ equals

Ⓐ $\frac{25}{12}$ Ⓑ 1 Ⓒ $\frac{12}{7}$ Ⓓ $\frac{7}{12}$

**7** Two-thirds of a number is equal to 8; the number is

Ⓐ 16 Ⓑ 24 Ⓒ 12 Ⓓ 40

**8** $\frac{4\times8\times15\times10}{2\times6\times5}$ equals

Ⓐ 80 Ⓑ 70 Ⓒ 60 Ⓓ 100

**9** $\frac{5}{1-\frac{4}{5}}$ equals

Ⓐ 15 Ⓑ 25 Ⓒ 5 Ⓓ 20

**10** Which of the following numbers is the largest?

Ⓐ $\frac{2}{3}$ Ⓑ $\frac{3}{5}$ Ⓒ $\frac{2}{7}$ Ⓓ $\frac{7}{10}$

**11** $\frac{3}{7}\times\frac{21}{15}$ equals

Ⓐ $\frac{7}{105}$ Ⓑ $\frac{12}{35}$ Ⓒ $\frac{24}{105}$ Ⓓ $\frac{3}{5}$

**12** $4\frac{2}{5}+1\frac{1}{4}$ equals

Ⓐ $3\frac{7}{20}$ Ⓑ $5\frac{13}{20}$ Ⓒ $6\frac{9}{20}$ Ⓓ $7\frac{11}{20}$

**Total marks achieved for PART A** 12

# Fractions

## Unit 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**

| Questions | Answers only | Marks |
|---|---|---|
| **1** $\frac{7}{8} = \frac{\quad}{56}$ | _____ | 1 |
| **2** Simplify $\frac{9}{12}$ | _____ | 1 |
| **3** Simplify $7\frac{8}{12}$, leaving as a mixed number. | _____ | 1 |
| **4** Write $4\frac{7}{9}$ as an improper fraction. | _____ | 1 |
| **5** Write $\frac{37}{4}$ as a mixed number. | _____ | 1 |
| **6** Add $\frac{3}{10} + \frac{4}{10}$ | _____ | 1 |
| **7** Subtract $\frac{39}{70} - \frac{9}{70}$ | _____ | 1 |
| **8** Work out $\frac{2}{3} + \frac{5}{7}$ | _____ | 1 |
| **9** Find $\frac{8}{9} - \frac{1}{2}$ | _____ | 1 |
| Evaluate the following: | | |
| **10** $\frac{3}{7} \times \frac{5}{7} =$ | _____ | 1 |
| **11** $\frac{8}{21} \times \frac{7}{16} =$ | _____ | 1 |
| **12** $\frac{5}{27} \quad \frac{4}{9} =$ | _____ | 1 |
| **13** $15 \quad \frac{2}{5} =$ | _____ | 1 |
| **14** $\left(\frac{8}{25} \quad \frac{3}{5}\right) \quad \frac{4}{5} =$ | _____ | 1 |
| **15** $5\frac{5}{7} \times \frac{3}{20} =$ | _____ | 1 |

**Total marks achieved for PART B** $\frac{\quad}{15}$