

Equivalence

Make the fractions equivalent:

a) $\frac{1}{3} = \frac{\quad}{9} = \frac{5}{\quad} = \frac{\quad}{30}$

b) $\frac{2}{5} = \frac{6}{\quad} = \frac{\quad}{45} = \frac{24}{\quad}$

Write in its simplest terms:

c) $\frac{9}{15} =$

d) $\frac{28}{72} =$

Write as a mixed number:

e) $\frac{23}{3} =$

f) $\frac{22}{4} =$

Write as an improper fraction:

g) $3\frac{2}{5} =$

h) $7\frac{3}{4} =$

Fraction arithmetic

Evaluate:

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

b) $\frac{3}{8} + \frac{3}{7} =$

c) $1 - \frac{1}{3} =$

d) $\frac{8}{9} - \frac{5}{6} =$

e) $\frac{1}{4} \times \frac{1}{3} =$

f) $\frac{5}{7} \times \frac{21}{25} =$

g) $\frac{1}{4} \div \frac{1}{8} =$

h) $\frac{4}{11} \div \frac{2}{3} =$

i) $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} =$

Converting fractions, decimals
& percentages

Complete the table:

Fraction	Decimal	Percentage
$\frac{1}{2}$		
		25%
	0.9	
$\frac{3}{5}$		
	0.375	

Writing percentages

Express as a percentage:

a) 17 out of 25

b) 18 out of 40

c) 23 out of 80

Percentages as operators

Find:

a) 10% of 120

b) 15% of 280

c) 89% of 190

Decimal arithmetic

Use a handwritten method to calculate:

a) $4.63 + 2.45 =$

b) $1.05 - 0.188 =$

c) $1.4 \times 3.8 =$

d) $12.5 \div 0.4 =$

Comparing fractions

Use =, <, or >:

a) $\frac{3}{4} \text{ — } \frac{4}{5}$

b) $\frac{2}{7} \text{ — } \frac{4}{13}$

c) $\frac{17}{6} \text{ — } 2\frac{5}{6}$

d) $3\frac{3}{5} \text{ — } \frac{11}{3}$

Fractions as operators

Find:

a) $\frac{1}{2}$ of 26

b) $\frac{2}{5}$ of 35

c) $\frac{3}{4}$ of 36 Kg

d) $\frac{5}{8}$ of £4

Percentage increase and decrease

a) Increase 86 by 10%

b) Decrease 164 by 35%

Find the percentage change from A to B:

c) A = 250, B = 375

d) A = £2.80, B = £2.66

Simple interest

£2500 is invested in an account that receives 4% simple interest per annum. What is the total value of the investment after 3 years?