

Recognise, Name and Write Fractions

Recognise mixed numbers and improper fractions <2 and convert from one form to the other

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

Read and write decimal numbers as fractions

$$1.1 = 1\frac{1}{10}$$

Recognise and use hundredth and relate them decimal equivalents

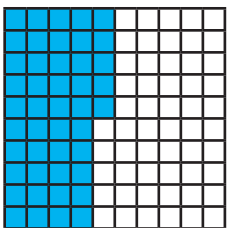
$$0.13 = \frac{13}{100}$$

Read and write numbers with up to three decimal places

Read out loud 2.09

Two point
zero nine

Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred'



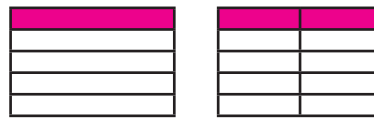
This shows 45%

Fractions Mat

Working towards Year 5

Equivalence

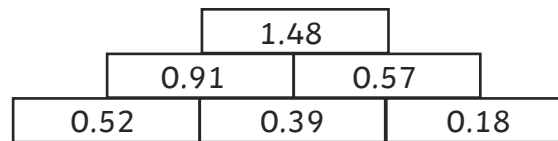
Identify, name and write equivalent fractions of given simple fractions, represented visually



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

Solve Problems

Solve problems involving number up to two decimal places



Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 and 25

A coat costs £80 at full price, but is being offered at 50% of the full price in a sale. How much does the coat cost now?

£40

Calculate

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

$$\frac{1}{8} + \frac{1}{4} = \frac{3}{8} \quad \text{and} \quad \frac{1}{2} - \frac{1}{8} = \frac{3}{8}$$

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

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

Compare and Order

Compare and order simple fractions whose denominators are all multiples of the same number

$$\frac{3}{8} > \frac{1}{4}$$

Order and compare numbers with up to two decimal places

0.31	0.4	0.42
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smallest

greatest

Rounding

Round decimals with two decimal places to the nearest whole number

1.25 rounds to 1



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Recognise, Name and Write Fractions

Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number

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

Read and write decimal numbers as fractions

$$1.25 = 1\frac{1}{4}$$

Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

$$0.131 = \frac{131}{1000}$$

Read and write numbers with up to three decimal places

Read out loud 2.309

Two point
three zero
nine

Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal

$$45\% = 0.45 = \frac{45}{100}$$

Fractions Mat

Expected Year 5

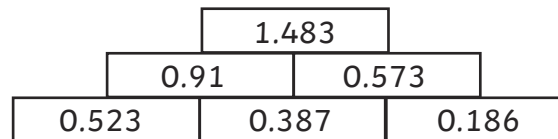
Equivalence

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

$$\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20}$$

Solve Problems

Solve problems involving number up to three decimal places



Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 and 25

A coat costs £80 at full price, but is being offered at 25% of the full price in a sale. How much does the coat cost now?

£20

Calculate

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

$$\frac{5}{8} + \frac{1}{4} = \frac{7}{8} \quad \text{and} \quad \frac{9}{10} - \frac{1}{2} = \frac{4}{10}$$

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

$$\frac{2}{3} \times 4 = 2\frac{2}{3}$$

Compare and Order

Compare and order fractions whose denominators are all multiples of the same number

$$\frac{3}{8} > \frac{1}{4}$$

Order and compare numbers with up to three decimal places

0.309	0.31	0.316
smallest		greatest

Rounding

Round decimals with two decimal places to the nearest whole number and to one decimal place

1.25 rounds to 1 and 1.3

Recognise, Name and Write Fractions

Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number

$$\frac{3}{5} \times 4 = 2 \frac{2}{5}$$

Read and write decimal numbers as fractions

$$1.375 = 1 \frac{3}{8}$$

Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents

Read and write numbers with up to three decimal places

Read out loud $2 \frac{309}{1000}$ as a decimal

Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal

Use simpler equivalent fractions for percentages and decimal:

$$45\% = 0.45 = \frac{9}{20}$$

Fractions Mat

Greater Depth Year 5

Equivalence

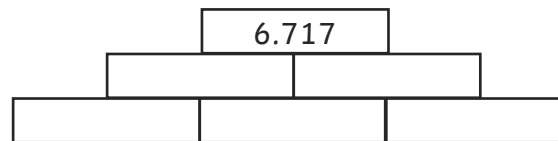
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

$$\frac{12}{32} = \frac{6}{16} = \frac{3}{8}$$

Solve Problems

Solve problems involving number up to three decimal places

Complete this using numbers with three decimal places:



Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 and 25

A coat costs £80 at full price, but is being offered at a 20% discount in a sale?
How much does the coat cost now?

£64

Calculate

Add and subtract fractions with the same denominator and denominators that are multiples of the same number

$$\frac{5}{8} + \frac{1}{24} = \text{---} \quad \text{and} \quad \frac{7}{10} - \frac{3}{5} = \text{---}$$

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

$$\frac{7}{8} \times 5 = \text{---}$$

Compare and Order

Compare and order fractions whose denominators are all multiples of the same number

Complete this using numbers with three decimal places:

$$\frac{3}{10} - \frac{5}{20}$$

Order and compare numbers with up to three decimal places

Order the following numbers:

0.307	0.287	0.3	0.316	0.31
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Rounding

Round decimals with two decimal places to the nearest whole number and to one decimal place

Can explain why 1.25 rounds to 1 and 1.3