

Chilli Challenge

Fractions



Fractions

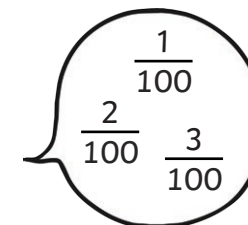
Nice and Spicy! 

Recognise, Name and Write Fractions

Count up and down in hundredths

Can you add these fractions to a number line and practice counting in hundredths?

*“One hundredth,
two hundredths,
three hundredths...”*



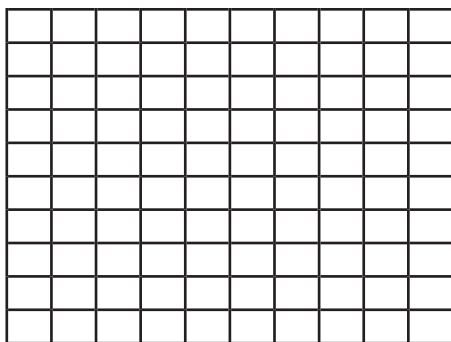
Fractions

Nice and Spicy! 

Recognise, Name and Write Fractions

Recognise that hundredths arise from dividing an object by one hundreds

Can you colour $\frac{23}{100}$



Fractions

Nice and Spicy! 

Solve Problems

Solve problems that involve fractions to calculate quantities, and fractions to divide quantities

Use the symbols $<$, $=$ or $>$ to compare these equations.

$$\frac{1}{3} \text{ of } 24 \quad \frac{1}{4} \text{ of } 28$$

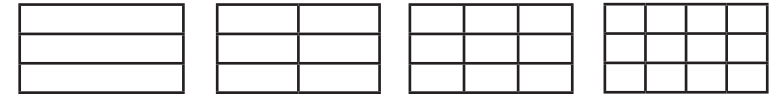
Solve Problems

Solve simple measure and money problems involving fractions and decimals to two decimal places

A piece of wood is 1m long. It is cut in half. How long will be each piece?

Equivalence

Recognise and show, using diagrams, families of common equivalent



$$\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$$

Can you shade the boxes to show how the fractions are equivalent.

Equivalence

Recognise and write decimal equivalents of any number of tenths

Write $\frac{2}{10}$ as a decimal

Equivalence

Recognise and write decimal equivalents to

$$\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$$

$$\frac{1}{4} = \quad \frac{1}{2} = \quad \frac{3}{4} =$$

Calculate

Add and subtract fractions with the same denominator

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

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

Calculate

Find the effect of dividing a one-digit number by 10, identifying the value of the digits in the answer as ones, tens and hundredths

$$2 \div 10 = 0.2$$



What is the value of this number?

Compare and Order

Compare numbers with one decimal place

Write > or < to make the statement true.

0.6 0.9

Rounding

Round decimals with one decimal place to the nearest whole number

Can you round the decimals to the nearest whole number?

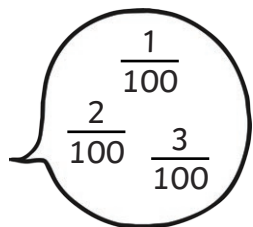
1.5 rounds to

5.4 rounds to

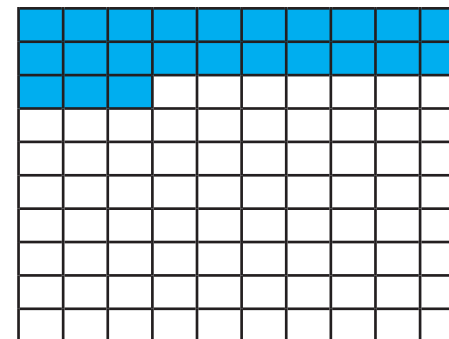
Recognise, Name and Write Fractions**Count up and down in hundredths**

Can you add these fractions to a number line and practice counting in hundredths?

*“One hundredth,
two hundredths,
three hundredths...”*

**Recognise, Name and Write Fractions****Recognise that hundredths arise from dividing an object by one hundred**

Can you colour $\frac{23}{100}$

**Solve Problems****Solve problems that involve fractions to calculate quantities, and fractions to divide quantities**

Use the symbols $<$, $=$ or $>$ to compare these equations.

$$\frac{1}{3} \text{ of } 24 > \frac{1}{4} \text{ of } 28$$

Solve Problems**Solve simple measure and money problems involving fractions and decimals to two decimal places**

A piece of wood is 1m long. It is cut in half. How long will be each piece?

$$0.5\text{m or } \frac{1}{2} \text{ m}$$

Equivalence

Recognise and show, using diagrams, families of common equivalent



$$\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$$

Can you shade the boxes to show how the fractions are equivalent.

Equivalence

Recognise and write decimal equivalents of any number of tenths

Write $\frac{2}{10}$ as a decimal

$$\frac{2}{10} = 0.2$$

Equivalence

Recognise and write decimal equivalents to

$$\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$$

$$\frac{1}{4} = 0.25 \quad \frac{1}{2} = 0.5 \quad \frac{3}{4} = 0.75$$

Calculate

Add and subtract fractions with the same denominator

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

Calculate

Find the effect of dividing a one-digit number by 10, identifying the value of the digits in the answer as ones, tens and hundredths

$$2 \div 10 = 0.2$$



What is the value of this number?

tenth

Compare and Order

Compare numbers with one decimal place

Write > or < to make the statement true.

$$0.6 < 0.9$$

Rounding

Round decimals with one decimal place to the nearest whole number

Can you round the decimals to the nearest whole number?

1.5 rounds to **2**

5.4 rounds to **5**

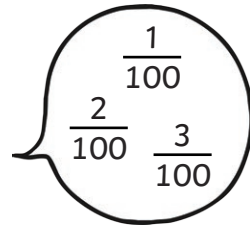


Recognise, Name and Write Fractions

Count up and down in hundredths

Add these fractions to a number line and practice counting in hundredths?

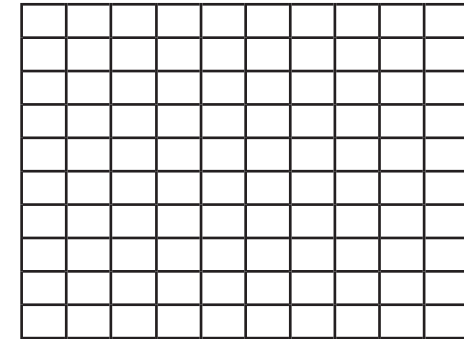
*"One hundredth,
two hundredths,
three hundredths..."*



Recognise, Name and Write Fractions

Count up and down in hundredths

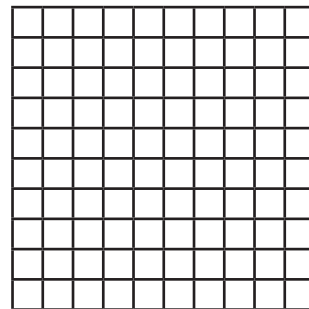
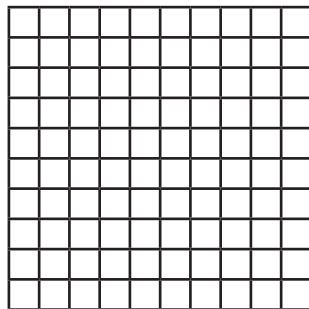
Colour the squares to show $\frac{23}{100}$



Recognise, Name and Write Fractions

...and dividing tenths by ten

Colour the squares to show $\frac{4}{10}$ and $\frac{4}{100}$



Compare and Order

Compare numbers with the same number of decimal places

Use the symbols < or > to make the statements true

$$0.6 \square 0.9$$

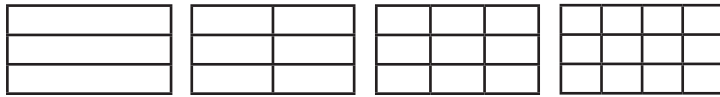
$$0.45 \square 0.43$$



Equivalence

Recognise and show, using diagrams, families of common equivalent

Can you shade the rectangles to show the fractions?



$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$$



Equivalence

Recognise and write decimal equivalents of any number of tenths or hundredths

Write the decimals that are equivalent to each fraction

$$\frac{2}{10} = \qquad \frac{23}{100} =$$



Equivalence

Recognise and write decimal equivalents to

$$\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$$



Rounding

Round decimals with one decimal place to the nearest whole number

Round the decimals to the nearest whole number

1.5 rounds to

5.4 rounds to



Calculate

Add and subtract fractions with the same denominator

Complete the following calculations

$$\frac{5}{16} + \frac{4}{16} =$$

$$\frac{11}{16} - \frac{5}{16} =$$



Calculate

Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tens and hundredths

$$23 \div 100 = 0.23$$



Solve Problems

Solve problems that involve increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Use the symbols $<$, $=$ or $>$ to compare these equations.

$$\frac{2}{3} \text{ of } 24 \quad \frac{3}{4} \text{ of } 28$$



Solve Problems

Solve simple measure and money problems involving fractions and decimals to two decimal places

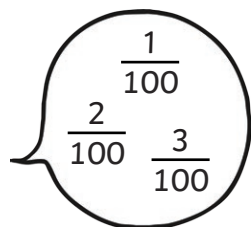
2 litres of juice costs £1.30.
How much does one litre cost?

Recognise, Name and Write Fractions

Count up and down in hundredths

Add these fractions to a number line and practice counting in hundredths?

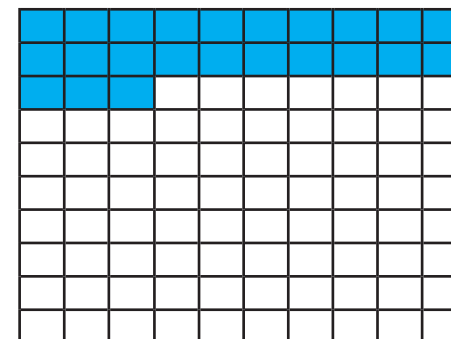
*"One hundredth,
two hundredths,
three hundredths..."*



Recognise, Name and Write Fractions

Count up and down in hundredths

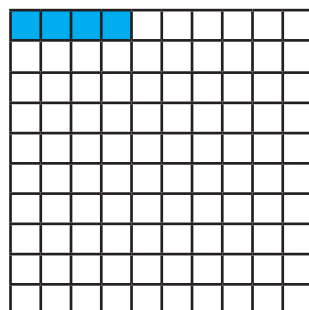
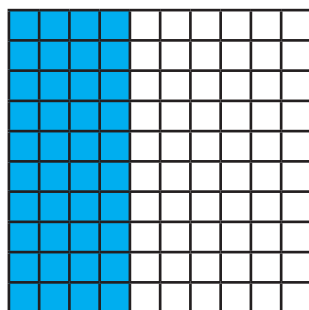
Colour the squares to show $\frac{23}{100}$



Recognise, Name and Write Fractions

...and dividing tenths by ten

Colour the squares to show $\frac{4}{10}$ and $\frac{4}{100}$



Compare and Order

Compare numbers with the same number of decimal places

Use the symbols < or > to make the statements true

$0.6 < 0.9$

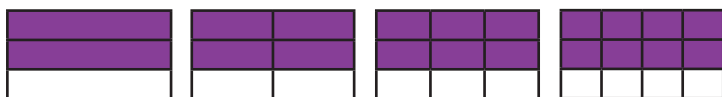
$0.45 > 0.43$



Equivalence

Recognise and show, using diagrams, families of common equivalent

Can you shade the rectangles to show the fractions?



$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$$



Equivalence

Recognise and write decimal equivalents of any number of tenths or hundredths

Write the decimals that are equivalent to each fraction

$$\frac{2}{10} = \mathbf{0.2} \quad \text{and} \quad \frac{23}{100} = \mathbf{0.23}$$



Equivalence

Recognise and write decimal equivalents to

$$\frac{1}{4}, \quad \frac{1}{2}, \quad \frac{3}{4}$$

$$\frac{1}{4} = \mathbf{0.25}, \quad \frac{1}{2} = \mathbf{0.5}, \quad \frac{3}{4} = \mathbf{0.75}$$



Rounding

Round decimals with one decimal place to the nearest whole number

Round the decimals to the nearest whole number

1.5 rounds to **2**

5.4 rounds to **5**

**Calculate**

Add and subtract fractions with the same denominator

Complete the following calculations

$$\frac{5}{16} + \frac{4}{16} = \frac{9}{16} \quad \frac{11}{16} - \frac{5}{16} = \frac{6}{16}$$

**Calculate**

Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tens and hundredths

$$23 \div 100 = 0.23$$

tenth hundredth

**Solve Problems**

Solve problems that involve increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Use the symbols <, = or > to compare these equations.

$$\frac{2}{3} \text{ of } 24 < \frac{3}{4} \text{ of } 28$$

**Solve Problems**

Solve simple measure and money problems involving fractions and decimals to two decimal places

2 litres of juice costs £1.30.
How much does one litre cost?

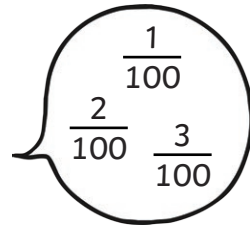
£0.65 or 65p

Recognise, Name and Write Fractions

Count up and down in hundredths

Add the fractions to the number line. Can you practice counting forwards and backwards?

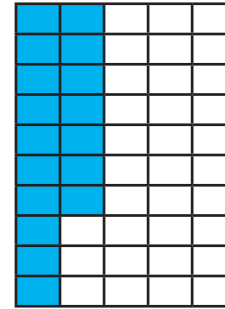
*“One hundredth,
two hundredths,
three hundredths...”*



Recognise, Name and Write Fractions

Apply your understanding that hundredths arise from dividing an object by one hundred

How does this diagram show $\frac{34}{100}$



Recognise, Name and Write Fractions

...and dividing tenths by ten

Divide $\frac{7}{10}$ by 10

$$\frac{7}{10} \div 10 =$$

Think how this be demonstrated using a metre ruler



Rounding

Round decimals with one decimal place to the nearest whole number

Explain why 1.5 rounds to 2

**Equivalence**

Recognise families of common equivalent

Write equivalent fractions to $\frac{3}{5}$

**Equivalence**

Recognise and write decimal equivalents of any number of tenths or hundredths

Write the equivalent decimals

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

$$\frac{23}{100} =$$

**Equivalence**

Recognise and write decimal equivalents to

$$\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$$

using them in real life examples

$$\frac{3}{4} \text{ of } 1\text{kg} =$$

**Compare and Order**

Compare numbers with the same number of decimal places, explaining your answer

Why is $0.39 > 0.33$?

Calculate

Add and subtract fractions with the same denominator, using knowledge of common equivalents to write the answers in a simpler form

Add and subtract the following fractions.
Can you write an equivalent fraction for each answer?

$$\frac{5}{16} + \frac{4}{16} + \frac{3}{16} = \quad =$$

$$\frac{11}{16} - \frac{5}{16} = \quad =$$

Calculate

Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tens and hundredths

Explain what happens to the tens and ones when
 $23 \div 100 = 0.23$

Solve Problems

Solve problems that involve increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Explain why $\frac{7}{8}$ of 24 = $\frac{3}{4}$ of 28

Solve Problems

Solve simple measure and money problems involving fractions and decimals to two decimal places

2l of lemonade costs £1.24. How much lemonade is in $\frac{3}{4}$ of the bottle and how much is it worth?

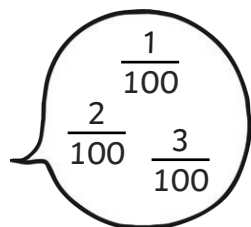


Recognise, Name and Write Fractions

Count up and down in hundredths

Add the fractions to the number line. Can you practice counting forwards and backwards?

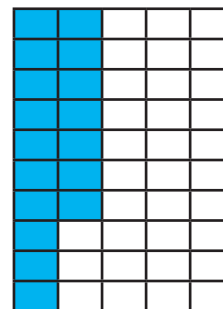
*“One hundredth,
two hundredths,
three hundredths...”*



Recognise, Name and Write Fractions

Apply your understanding that hundredths arise from dividing an object by one hundred

How does this diagram show $\frac{34}{100}$



Should refer to the fact that 17 out of 50 rectangles are coloured in so when this is multiplied by 2, 34 out of 100 rectangles are shaded.



Recognise, Name and Write Fractions

...and dividing tenths by ten

Divide $\frac{7}{10}$ by 10

$$\frac{7}{10} \div 10 = \frac{7}{100}$$

Answer: Should refer to the fact dividing any number by 10 makes it smaller, with all digits moving one place to the right.

Think how this be demonstrated using a metre ruler



Rounding

Round decimals with one decimal place to the nearest whole number

Explain why 1.5 rounds to 2

Answer: Should refer to the fact that any number ending in 5 or more is rounded up to the next whole number. Any number ending in 4 or less, it is rounded down.

**Equivalence**

Recognise families of common equivalent

Write equivalent fractions to $\frac{3}{5}$

$$\frac{3}{5} = \frac{6}{10} = \frac{9}{15} = \frac{12}{20}$$

**Equivalence**

Recognise and write decimal equivalents of any number of tenths or hundredths

Write the equivalent decimals

$$\frac{2}{10} = \mathbf{0.2} \quad \text{and} \quad \frac{23}{100} = \mathbf{0.23}$$

**Equivalence**

Recognise and write decimal equivalents to

$$\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$$

using them in real life examples

$$\frac{3}{4} \text{ of } 1\text{kg} = \mathbf{0.75\text{kg}}$$

**Compare and Order**

Compare numbers with the same number of decimal places, explaining your answer

Why is $0.39 > 0.33$?

It has six hundredths more than 0.33

**Calculate**

Add and subtract fractions with the same denominator, using knowledge of common equivalents to write the answers in a simpler form

Add and subtract the following fractions.
Can you write an equivalent fraction for each answer?

$$\frac{5}{16} + \frac{4}{16} + \frac{3}{16} = \frac{12}{16} = \frac{3}{4}$$

$$\frac{11}{16} - \frac{5}{16} = \frac{6}{16} = \frac{3}{8}$$

**Calculate**

Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tens and hundredths

Explain what happens to the tens and ones when
 $23 \div 100 = 0.23$

Answer: Should explain that when a number is divided by 100, the decimal point moves 2 places to the left, making the number smaller.

**Solve Problems**

Solve problems that involve increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Explain why $\frac{7}{8}$ of 24 = $\frac{3}{4}$ of 28

Answer: Should explain that $\frac{7}{8}$ of 28 = 21 and $\frac{3}{4}$ of 24 = 21, making the fractions equivalent.

**Solve Problems**

Solve simple measure and money problems involving fractions and decimals to two decimal places

2l of lemonade costs £1.24. How much lemonade is in $\frac{3}{4}$ of the bottle and how much is it worth?

1.5l and £0.93