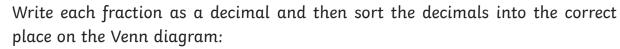
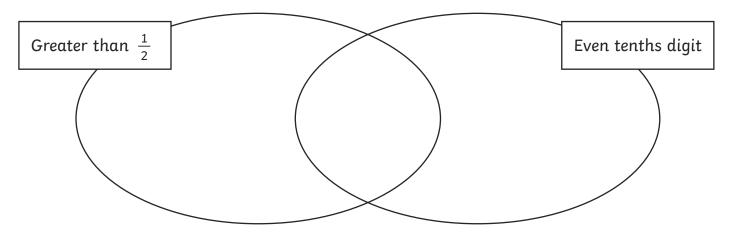


I can read and write decimal numbers as fractions.



1/10 =	2 10	$\frac{3}{10}$ =	\frac{4}{10} =
$\frac{5}{10}$ =	$\frac{6}{10}$ =	<del>7</del> <del>10</del> =	8/10 =
$\frac{9}{10}$ =	55 <sub>=</sub> 100	25 <sub>=</sub> 100	75 <sub>=</sub> 100



$\frac{1}{10}$ =	27 = 100	$\frac{2}{10}$ =	43 = 100
59 100	$\frac{3}{10}$ =	72 = 100	$\frac{6}{10}$ =
8/10 =	85 <sub>=</sub> 100	9/10 =	94 = 100

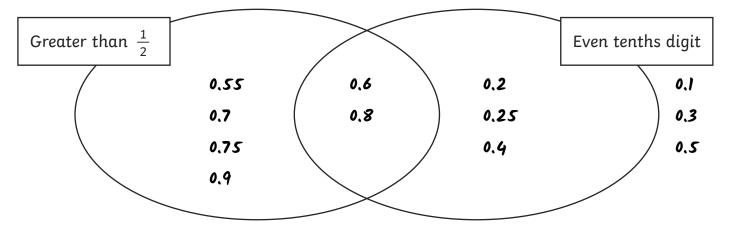
	Odd tenths digit	Even tenths digit
Less than $\frac{1}{2}$		
Greater than $\frac{1}{2}$		



I can read and write decimal numbers as fractions.

Write each fraction as a decimal and then sort the decimals into the correct place on the Venn diagram:

$\frac{1}{10} = 0.1$	$\frac{2}{10} = 0.2$	$\frac{3}{10} = 0.3$	$\frac{4}{10} = 0.4$
$\frac{5}{10} = 0.5$	$\frac{6}{10} = 0.6$	$\frac{7}{10} = 0.7$	$\frac{8}{10} = 0.3$
$\frac{9}{10} = 0.9$	$\frac{55}{100} = 0.55$	$\frac{25}{100} = 0.25$	$\frac{75}{100} = 0.75$

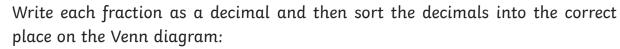


$\frac{1}{10} = 0.1$	$\frac{27}{100}$ = <b>0.27</b>	$\frac{2}{10} = 0.2$	$\frac{43}{100} = 0.43$
$\frac{59}{100} = 0.59$	$\frac{3}{10} = 0.3$	$\frac{72}{100}$ = <b>0.72</b>	$\frac{6}{10} = 0.6$
$\frac{8}{10} = 0.8$	$\frac{85}{100} = 0.85$	$\frac{9}{10} = 0.9$	$\frac{94}{100} = 0.94$

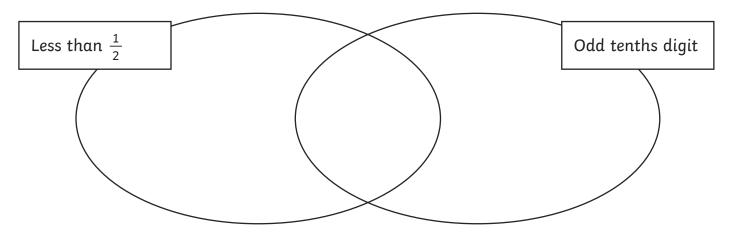
	Odd tenths digit	Even tenths digit
Less than $\frac{1}{2}$	0.1, 0.3	0.27, 0.2, 0.43
Greater than $\frac{1}{2}$	0.59, 0.72, 0.9, 0.94	0.6, 0.8, 0.85



I can read and write decimal numbers as fractions.



$\frac{1}{10}$ =	29 100	$\frac{3}{10}$ =	47 = 100
$\frac{5}{10}$ =	$\frac{6}{10}$ =	<del>7</del> <del>10</del> =	8/10 =
$\frac{91}{100}$ =	55 <sub>=</sub> 100	25 <sub>=</sub> 100	75 <sub>=</sub> 100



11 = 100	27 = 100	26 <sub>=</sub> 100	43 = 100
59 100	38 <sub>=</sub> 100	72 = 100	$\frac{69}{100}$ =
85 100	87 100	94 = 100	99 100

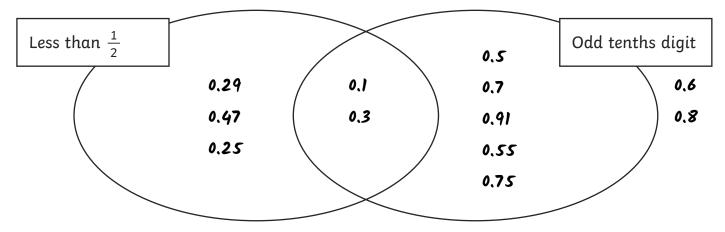
	Odd hundredths digit	Even hundredths digit
Less than $\frac{1}{2}$		
Greater than $\frac{1}{2}$		



I can read and write decimal numbers as fractions.

Write each fraction as a decimal and then sort the decimals into the correct place on the Venn diagram:

$\frac{1}{10} = 0.1$	$\frac{29}{100} = $ <b>0.29</b>	$\frac{3}{10} = 0.3$	$\frac{47}{100} = 0.47$
$\frac{5}{10} = 0.5$	$\frac{6}{10} = 0.6$	$\frac{7}{10} = $ <b>0.7</b>	$\frac{8}{10} = 0.8$
$\frac{91}{100} = 0.91$	$\frac{55}{100} = 0.55$	$\frac{25}{100} = 0.25$	$\frac{75}{100} = 0.75$



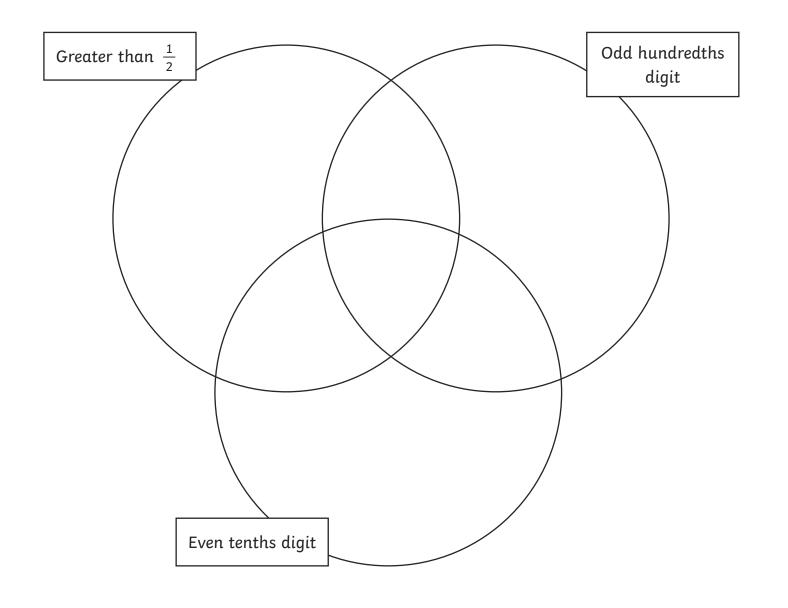
$\frac{11}{100} = 0.11$	$\frac{27}{100}$ = <b>0.27</b>	$\frac{26}{100} = $ <b>0.26</b>	$\frac{43}{100}$ = <b>0.43</b>
$\frac{59}{100} = 0.59$	$\frac{38}{100} = 0.38$	$\frac{72}{100}$ = <b>0.72</b>	$\frac{69}{100} = 0.69$
$\frac{85}{100} = 0.85$	$\frac{87}{100} = 0.87$	$\frac{94}{100} = 0.94$	$\frac{99}{100} = 0.99$

	Odd hundredths digit	Even hundredths digit
Less than $\frac{1}{2}$	0.11, 0.27, 0.43	0.26, 0.38
Greater than $\frac{1}{2}$	0.59, 0.69, 0.85, 0.87, 0.99	0.72, 0.94



I can read and write decimal numbers as fractions.

13 = 100	29 100	32 = 100	47 100
56 = 100	61 = 100	78 = 100	84 = 100
91 100	55 <sub>=</sub> 100	$\frac{42}{100}$ =	35 <sub>=</sub> 100





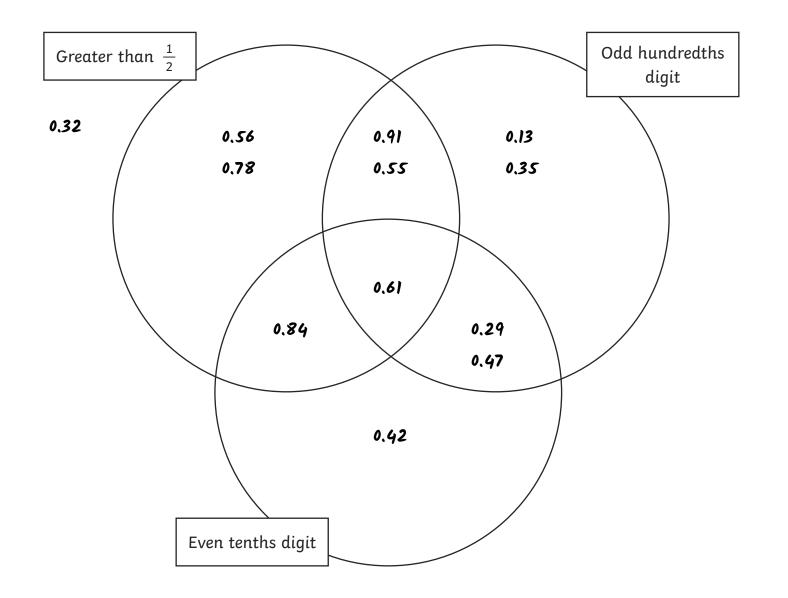
11 = 100	23 <sub>=</sub> 100	14 = 100	9 100
\frac{59}{100} =	38 = 100	72 = 100	69 100
85 100	<u>6</u> = 100	94 = 100	22 <sub>=</sub> 100

	Odd hundredths digit	Even hundredths digit
Less than $\frac{1}{4}$		
Greater than $\frac{1}{4}$		



I can read and write decimal numbers as fractions.

$\frac{13}{100} = 0.13$	$\frac{29}{100} = 0.29$	$\frac{32}{100}$ = <b>0.32</b>	$\frac{47}{100}$ = <b>0.47</b>
$\frac{56}{100} = 0.56$	$\frac{61}{100} = 0.61$	$\frac{78}{100} = $ <b>0.78</b>	$\frac{84}{100}$ = <b>0.84</b>
$\frac{91}{100} = 0.91$	$\frac{55}{100} = 0.55$	$\frac{42}{100} = 0.42$	$\frac{35}{100} = 0.35$



$\frac{11}{100} = 0.11$	$\frac{23}{100}$ = <b>0.23</b>	$\frac{14}{100} = 0.14$	$\frac{9}{100} = 0.09$
$\frac{59}{100} = 0.59$	$\frac{38}{100} = $ <b>0.38</b>	$\frac{72}{100} = $ <b>0.72</b>	$\frac{69}{100} = 0.69$
$\frac{85}{100} = 0.85$	$\frac{6}{100} = 0.06$	$\frac{94}{100} = 0.94$	$\frac{22}{100} = 0.22$

	Odd hundredths digit	Even hundredths digit
Less than $\frac{1}{4}$	0.11, 0.23, 0.09	0.14, 0.06, 0.22
Greater than $\frac{1}{4}$	0.59, 0.69, 0.85	0.38, 0.72, 0.94

# tens

## ones

# tenths

## hundredths

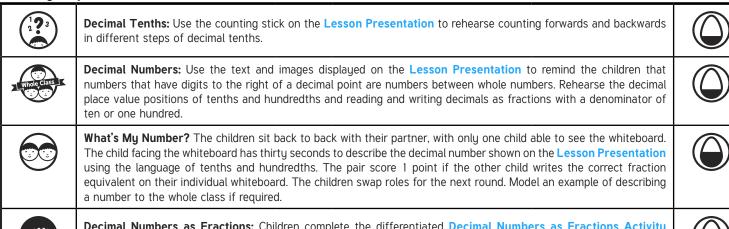
#### Fractions: Decimal Numbers as Fractions

Aim: Read and write decimal numbers as fractions. I can read and write decimal numbers as fractions.	Success Criteria: I can explain the place value position of decimal numbers using the vocabulary of tenths and hundredths. I can write a decimal number as a fraction. I can use Venn and Carroll diagrams to sort decimal numbers.	Preparation: Differentiated Decimal Numbers as Fractions Activity Sheets - 1 per child Decimal Place Value Posters - 1 per class
	Key/New Words: Decimal, fraction, tenth, hundredth.	Resources: Lesson Pack Whiteboards and pens - class set A music track of your choice

**Prior Learning:** 

It will be helpful if children have experience identifying the value of digits in whole numbers and recognise tenths and hundredths in the context of money and measurement.

#### Learning Sequence





Decimal Numbers as Fractions: Children complete the differentiated Decimal Numbers as Fractions Activity Sheets, to show they can read and write decimal numbers as fractions.





Write the simpler decimal numbers as fractions and sort into the correct places on the Venn and Carroll Diagrams by reasoning about tenths and hundredths.



Write the decimal numbers as fractions and sort into the correct places on the Venn and Carroll Diagrams by reasoning about tenths and hundredths.



Write the decimal numbers as fractions and sort into the correct places on the more complex Venn and Carroll Diagrams by reasoning about tenths and hundredths.



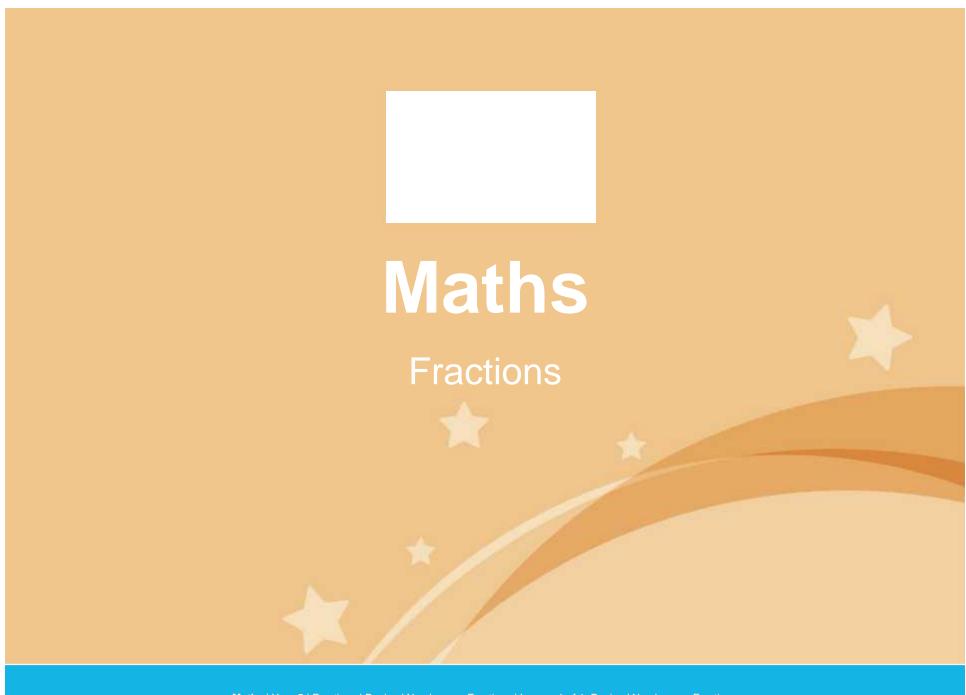


Place Value Disco: Place the Decimal Place Value Posters around the classroom. The whole class should stand in the centre of the room. When the music plays, they can move around the room. When the music stops, each child should move to stand at one of the place value posters. A decimal number will then be shown on the Lesson Presentation. If the highlighted digit is in the place value column of the poster the children chose to stand at, they score a point.

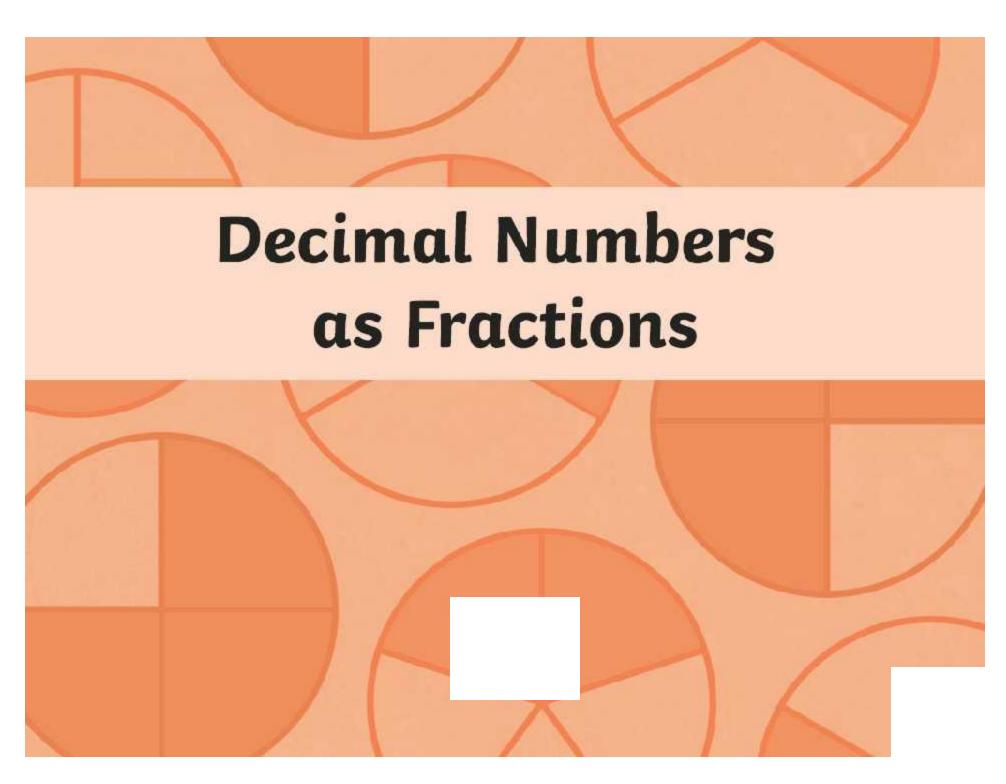
#### Masterit

**Explore**it: Children measure objects around the classroom and give the measurements in both decimals and fractions, e.g.  $5.6 \text{cm} = 5\frac{6}{10} \text{ cm}$ ,  $4.78 \text{m} = 4\frac{76}{100} \text{ m}$ 

Orderit: The children order measurements written as decimals to create number lines, writing the fraction equivalents.



Maths | Year 5 | Fractions | Decimal Numbers as Fractions | Lesson 1 of 1: Decimal Numbers as Fractions

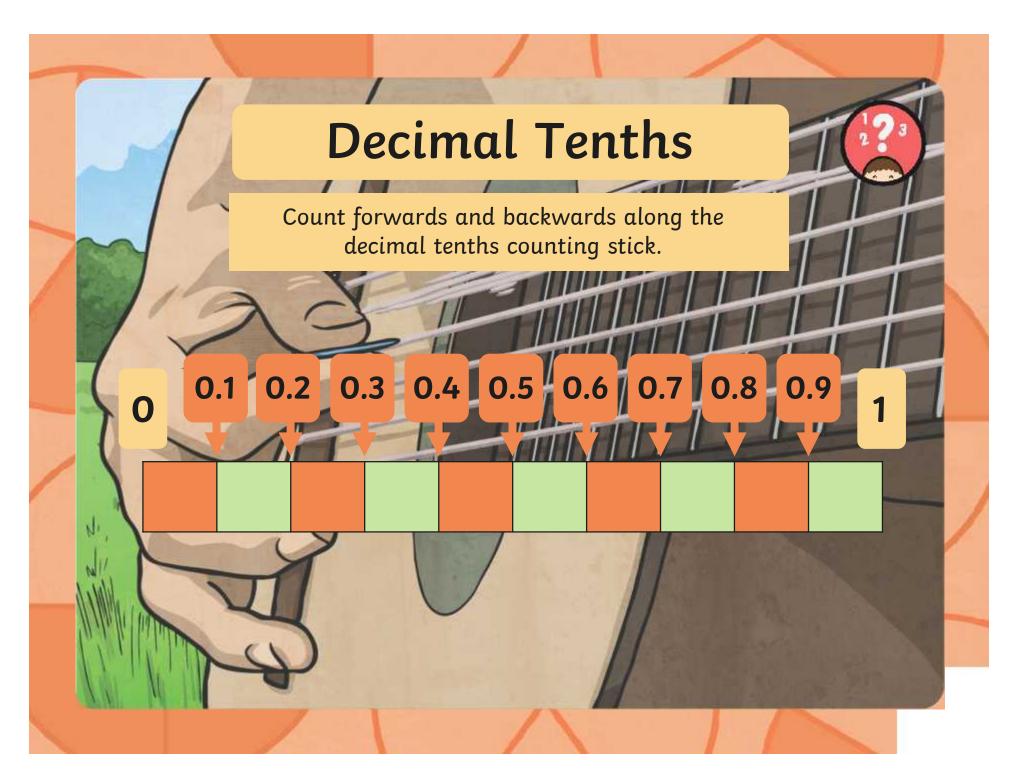


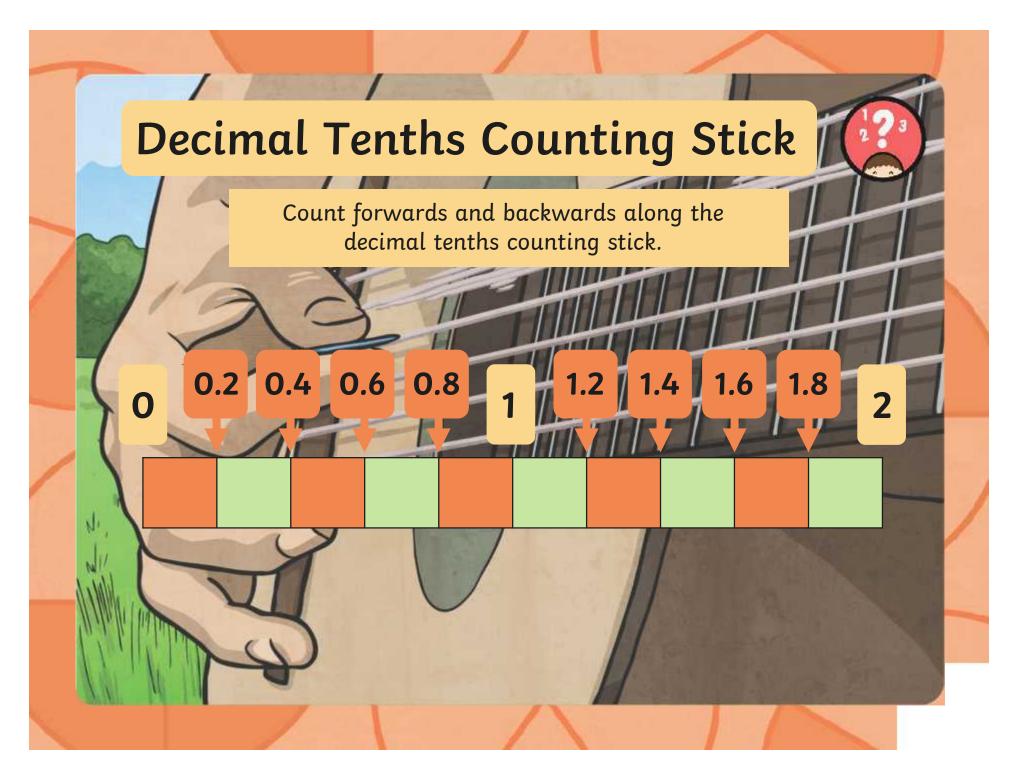
## Aim

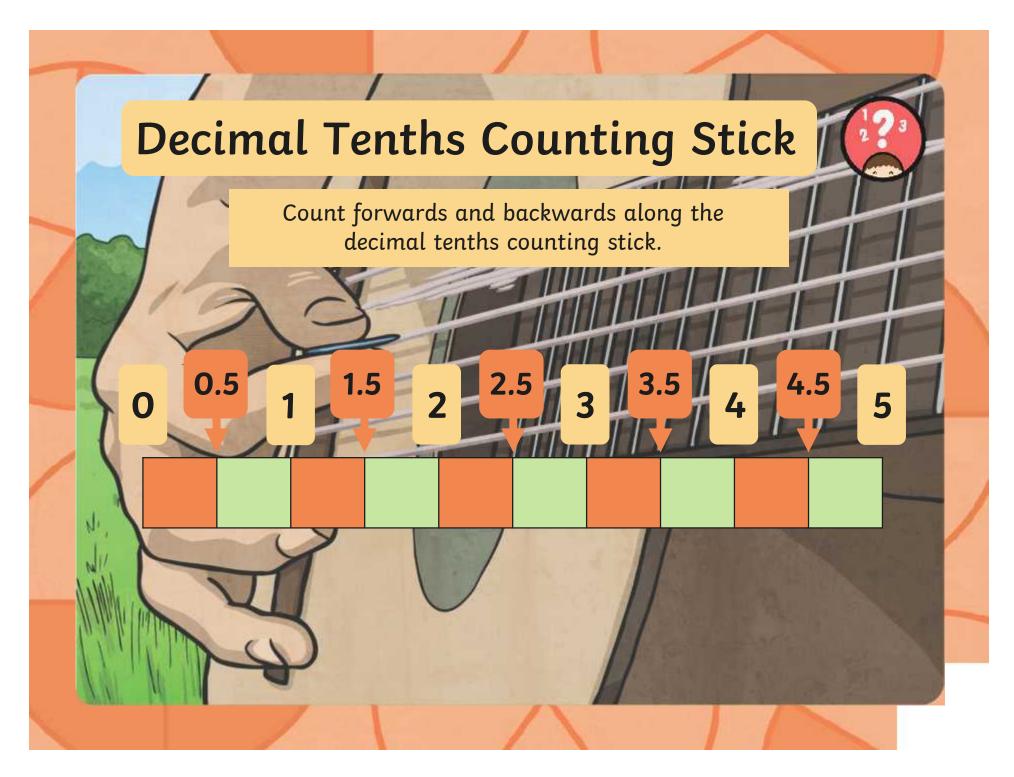
• I can read and write decimal numbers as fractions.

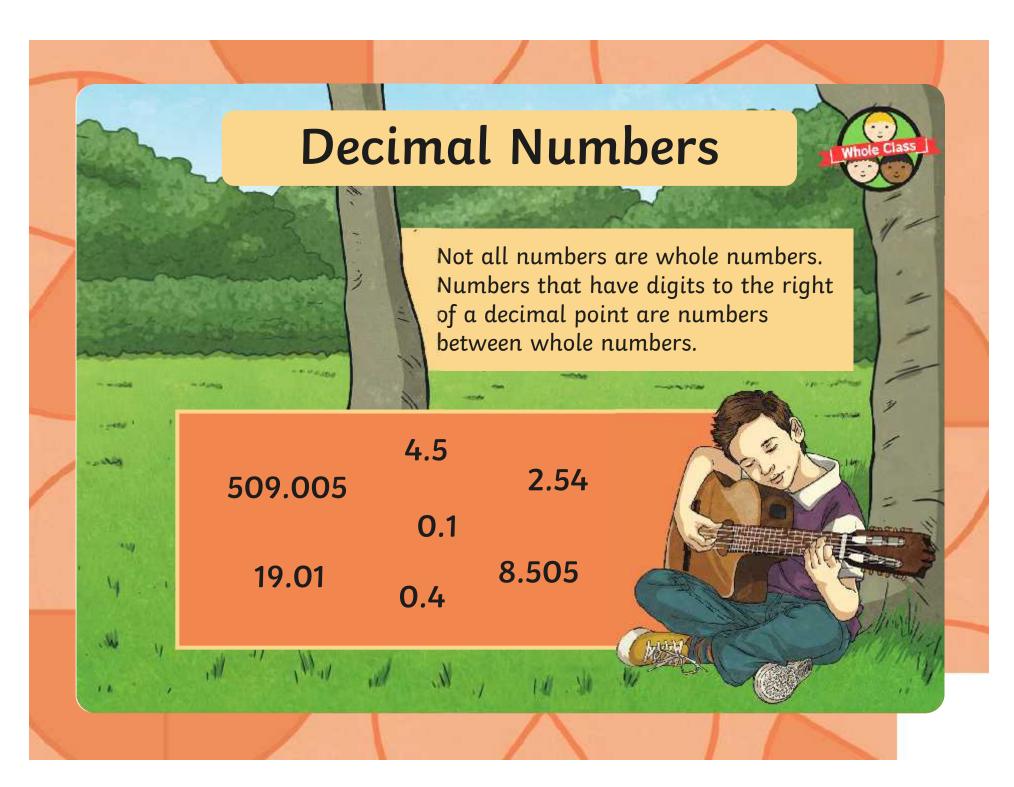
## Success Criteria

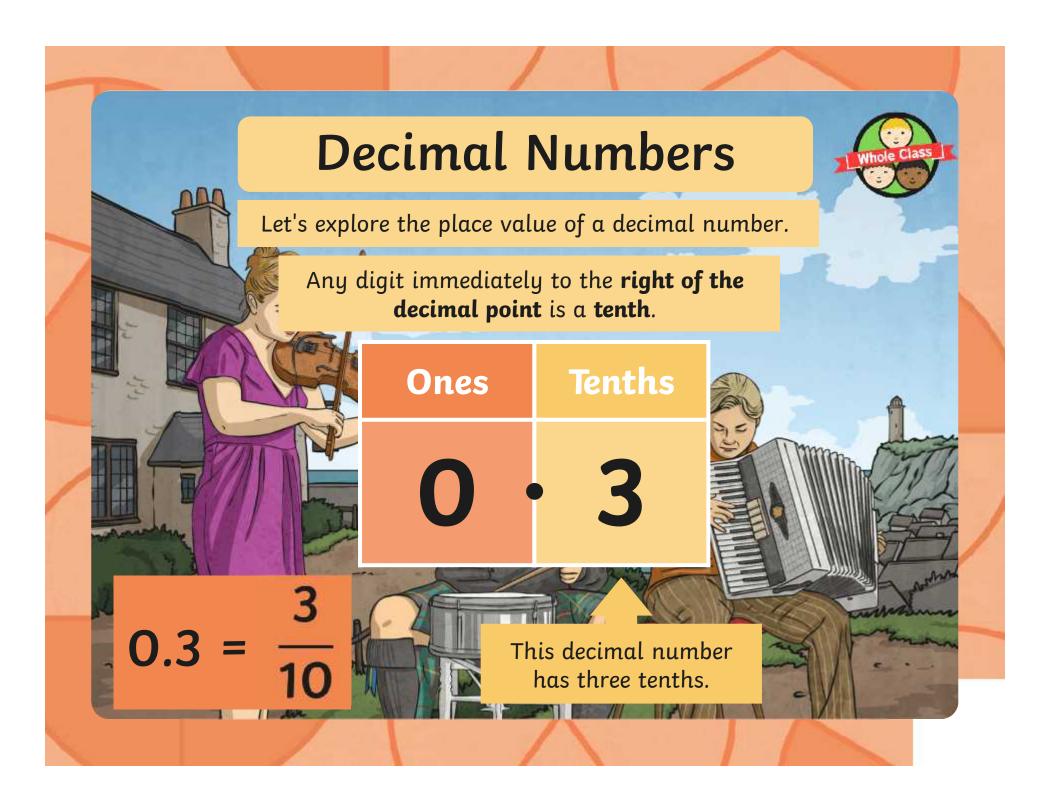
- I can explain the place value position of decimal numbers using the vocabulary of tenths and hundredths.
- I can write a decimal number as a fraction.
- I can use Venn and Carroll diagrams to sort decimal numbers.

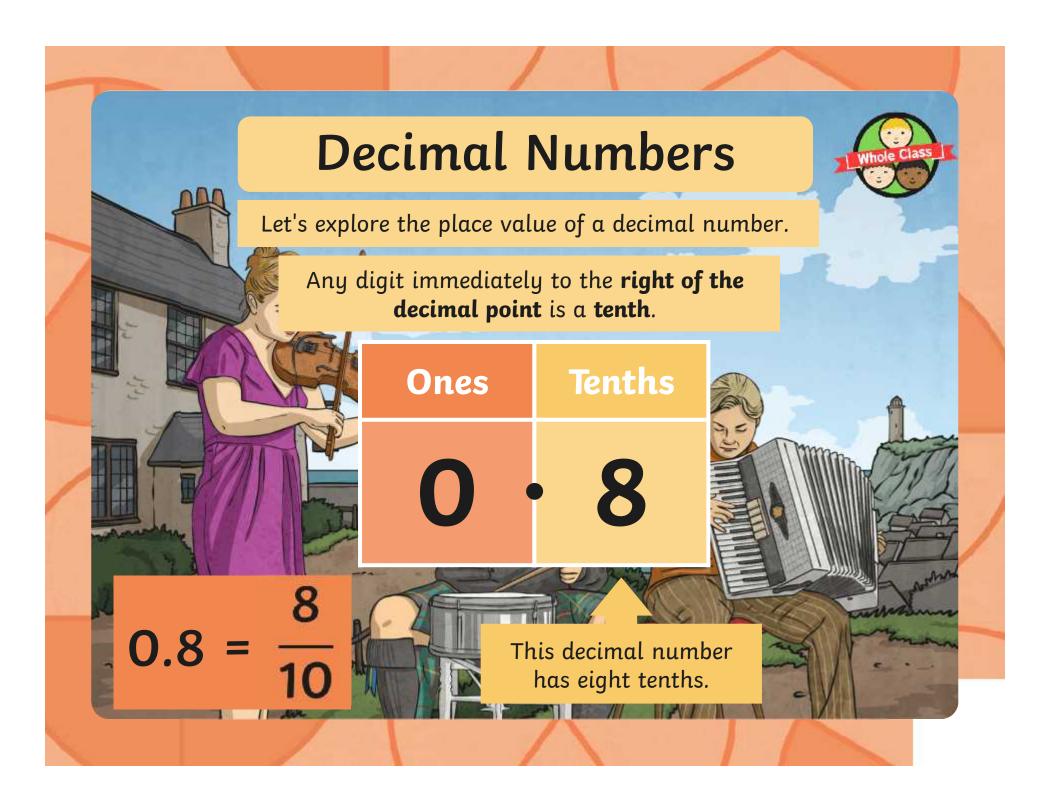


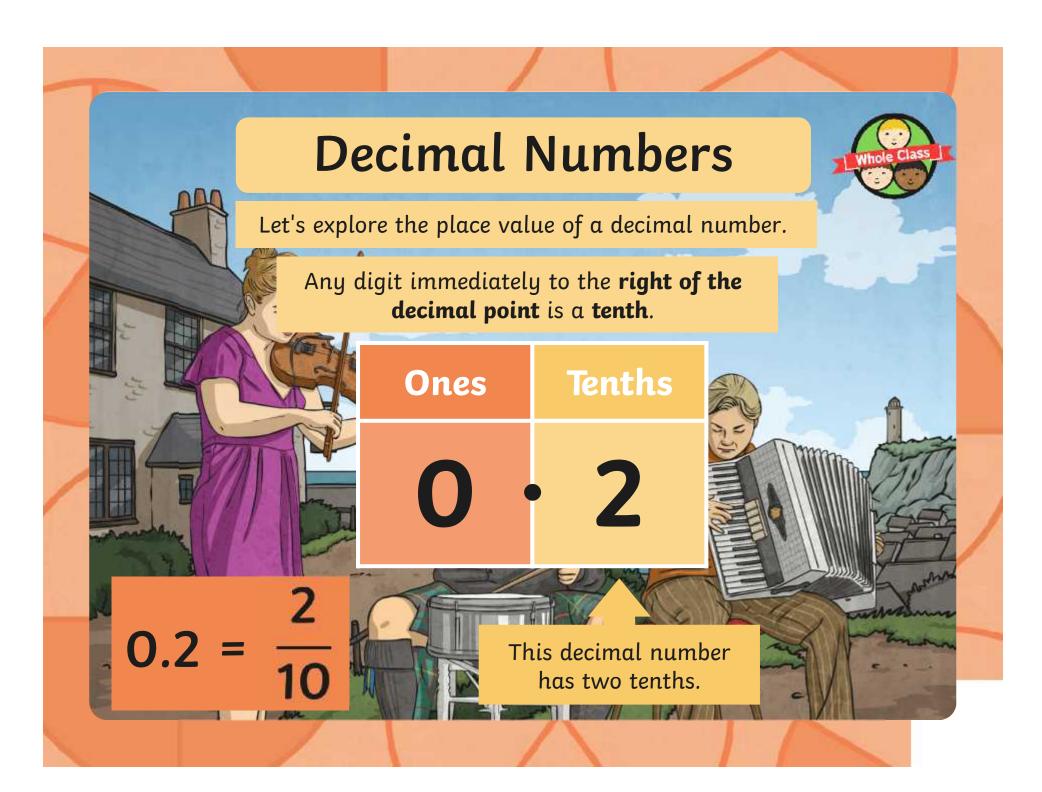


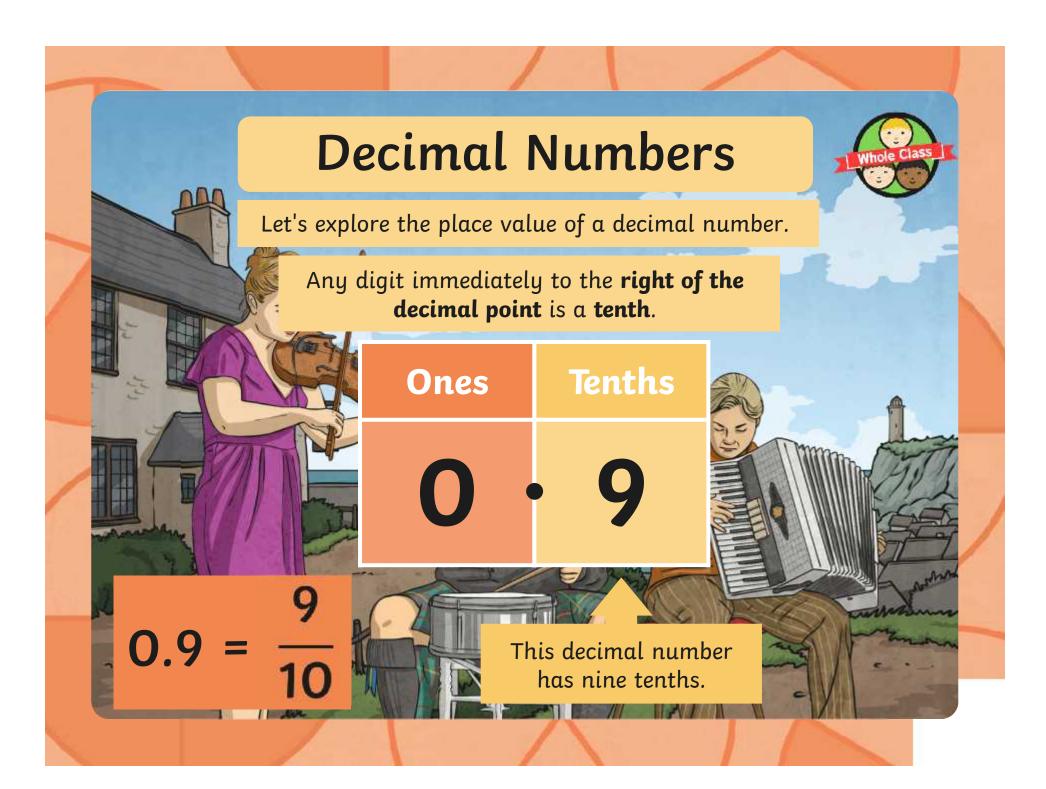


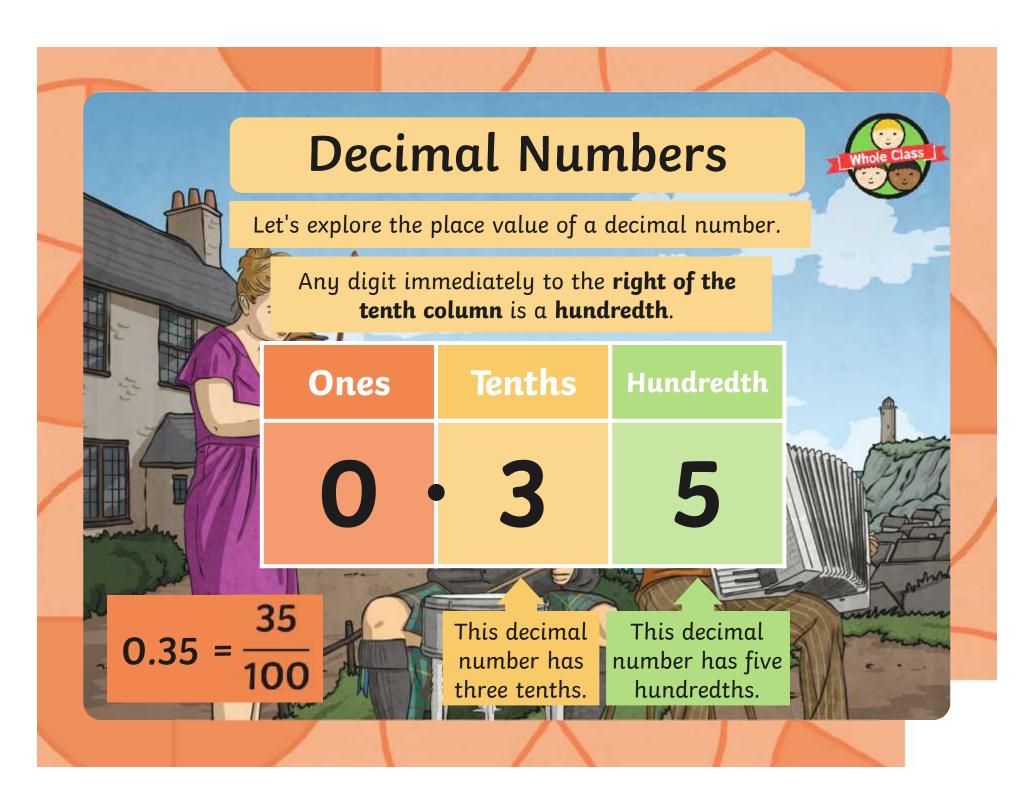


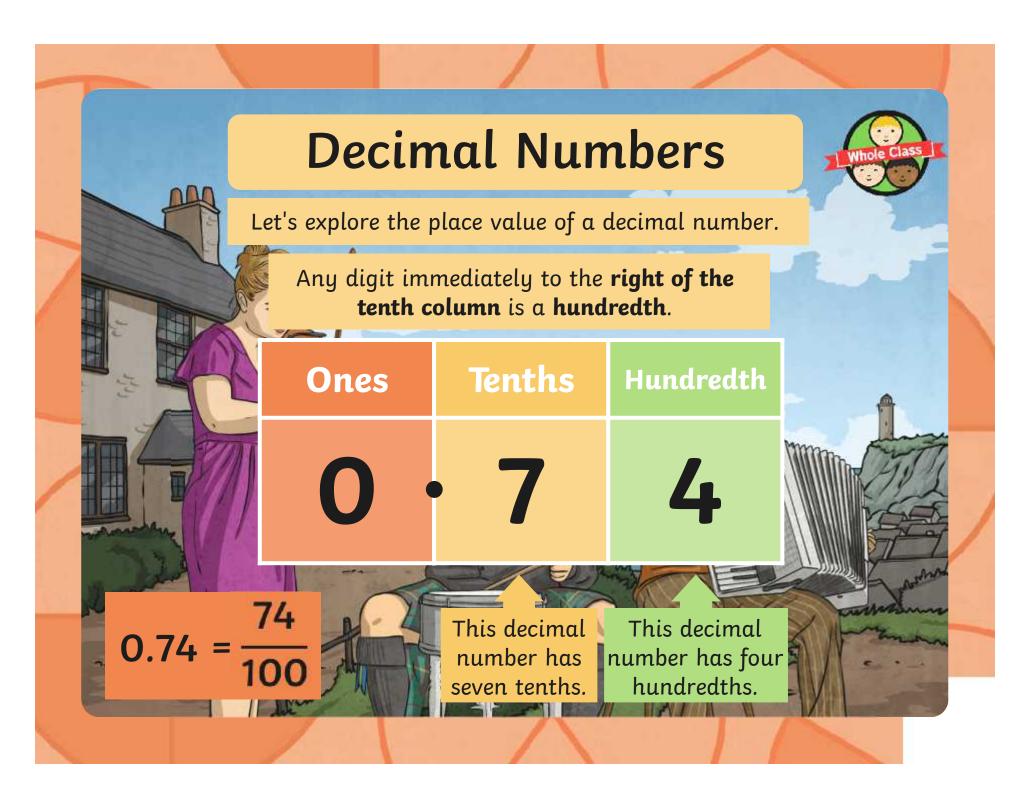


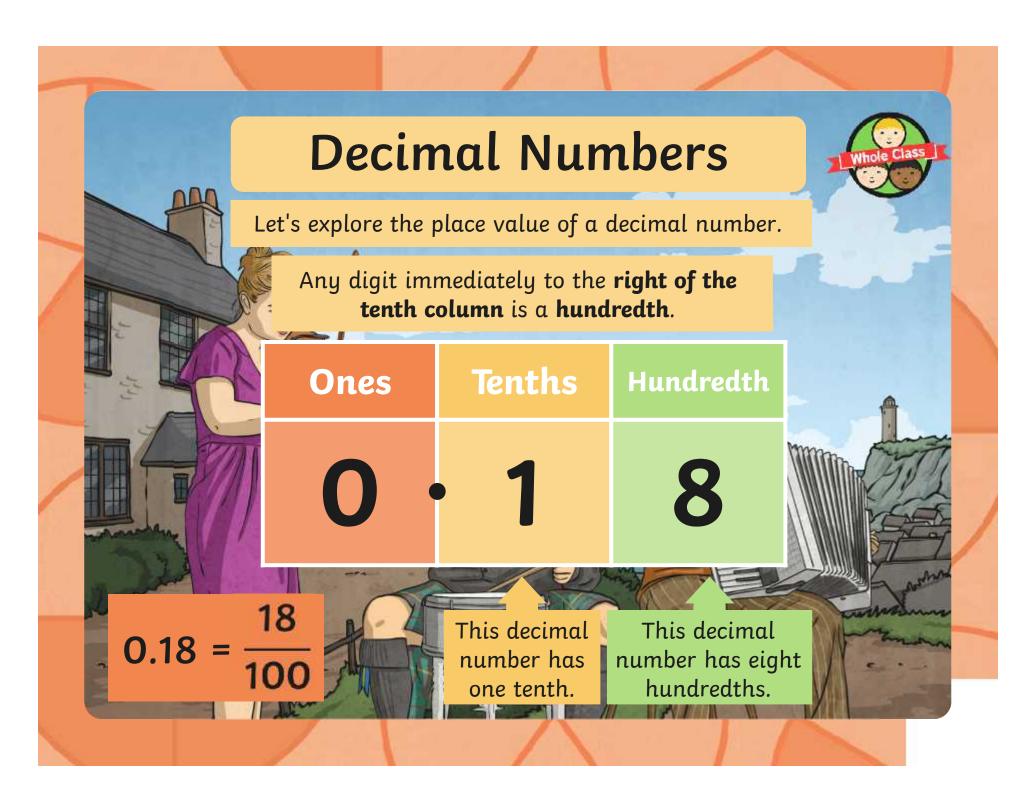


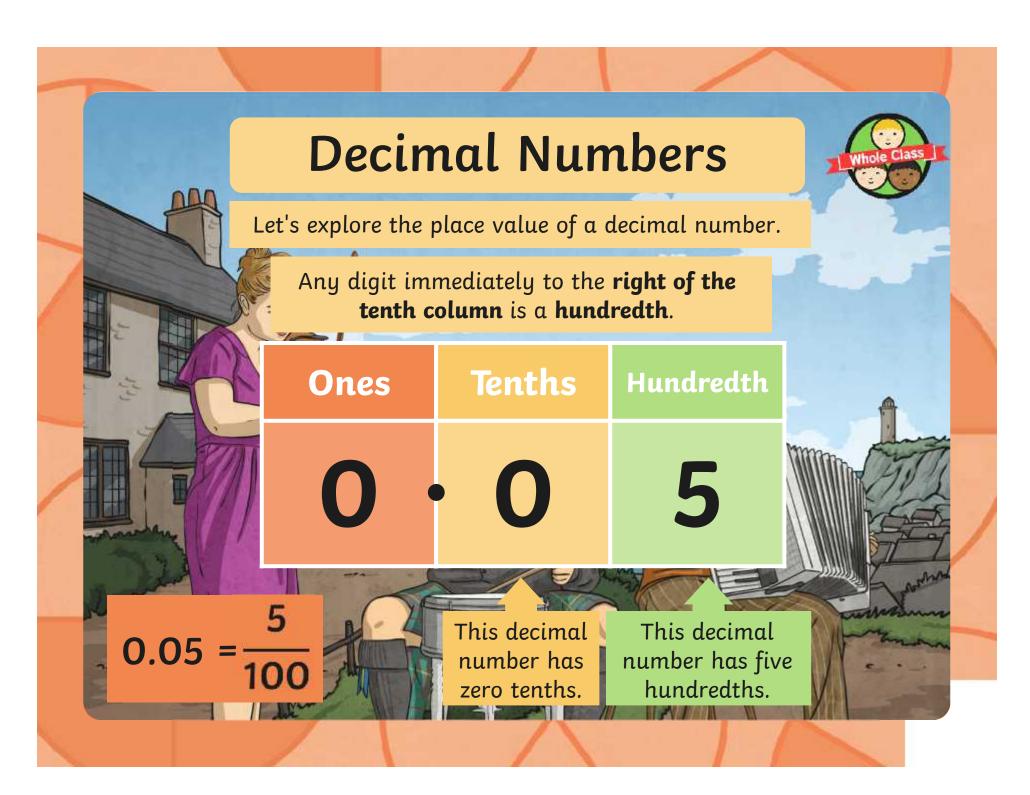


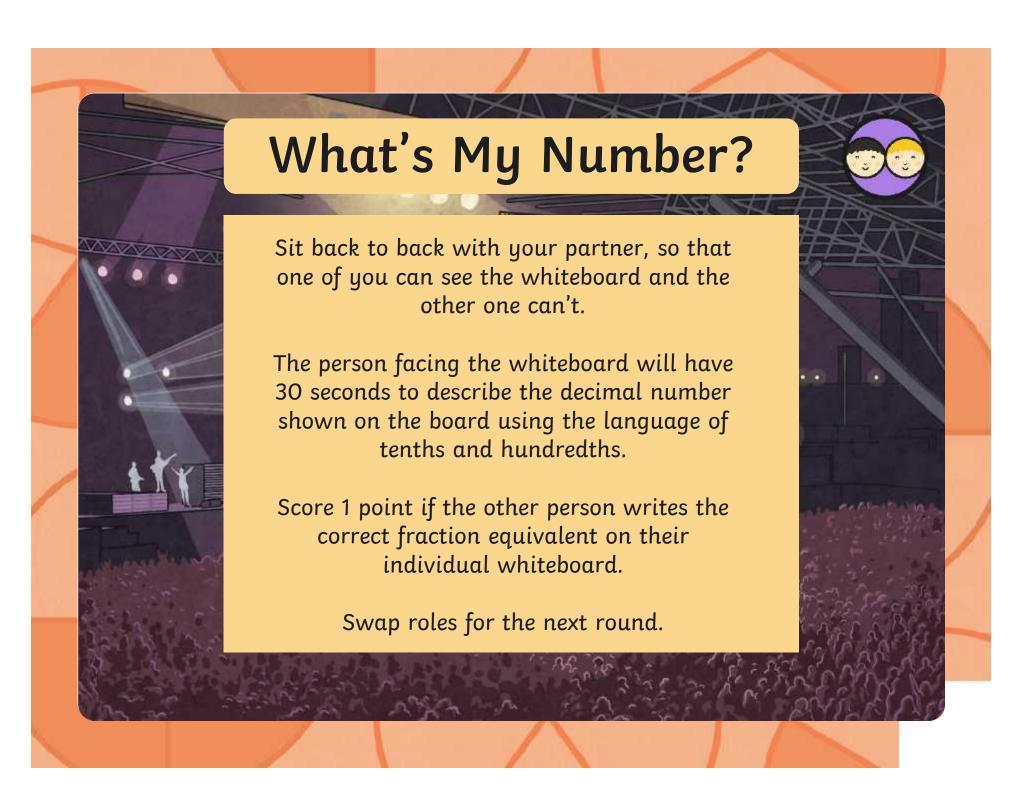


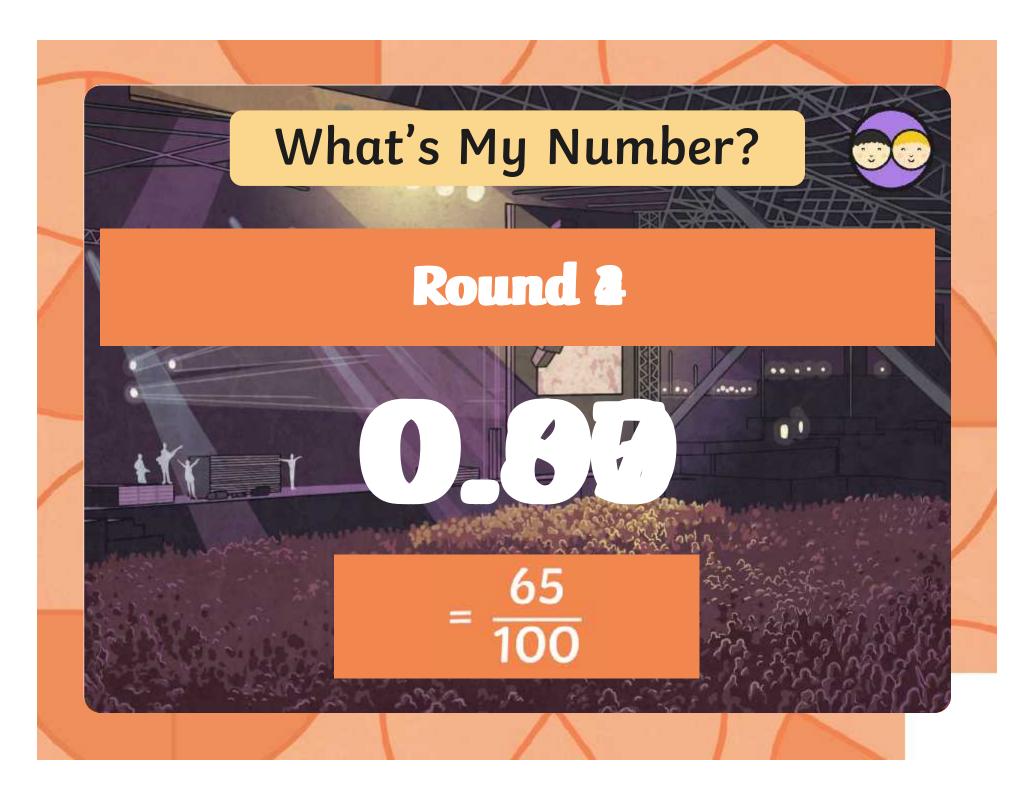




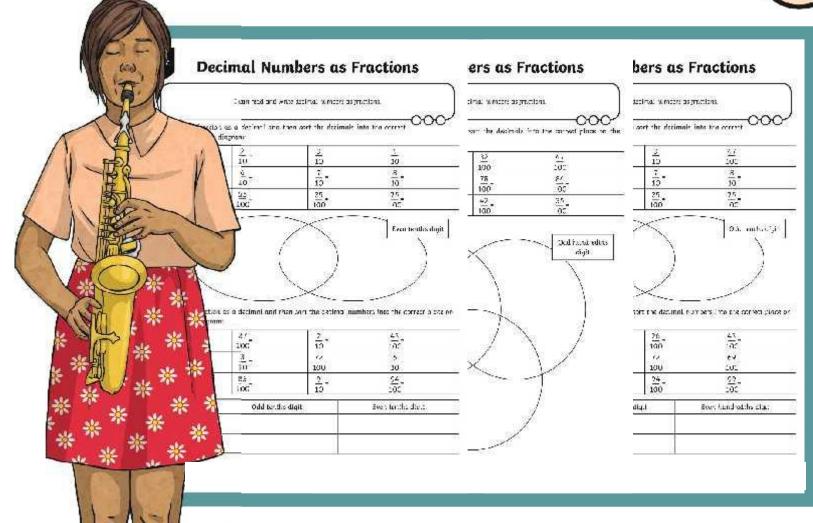












## Place Value Disco



Placed around the room are four different place value posters:

Tens, Ones, Tenths and Hundredths.

We are going to use these place value posters to play a game.

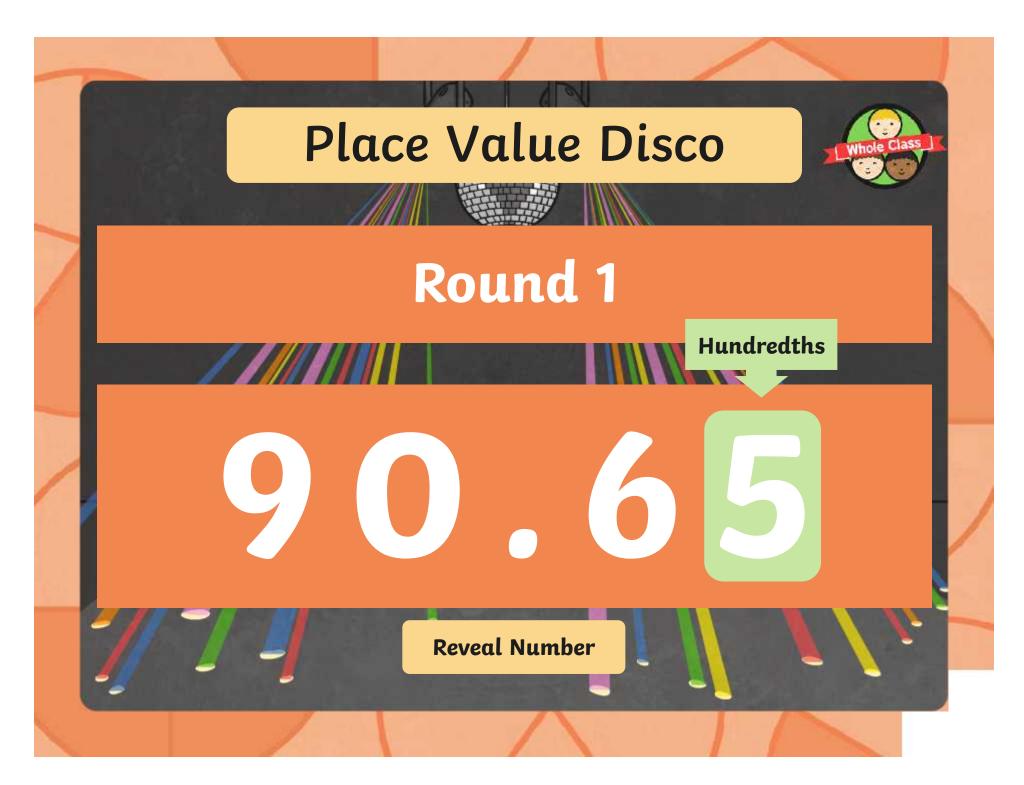
The whole class should stand in the centre of the room.

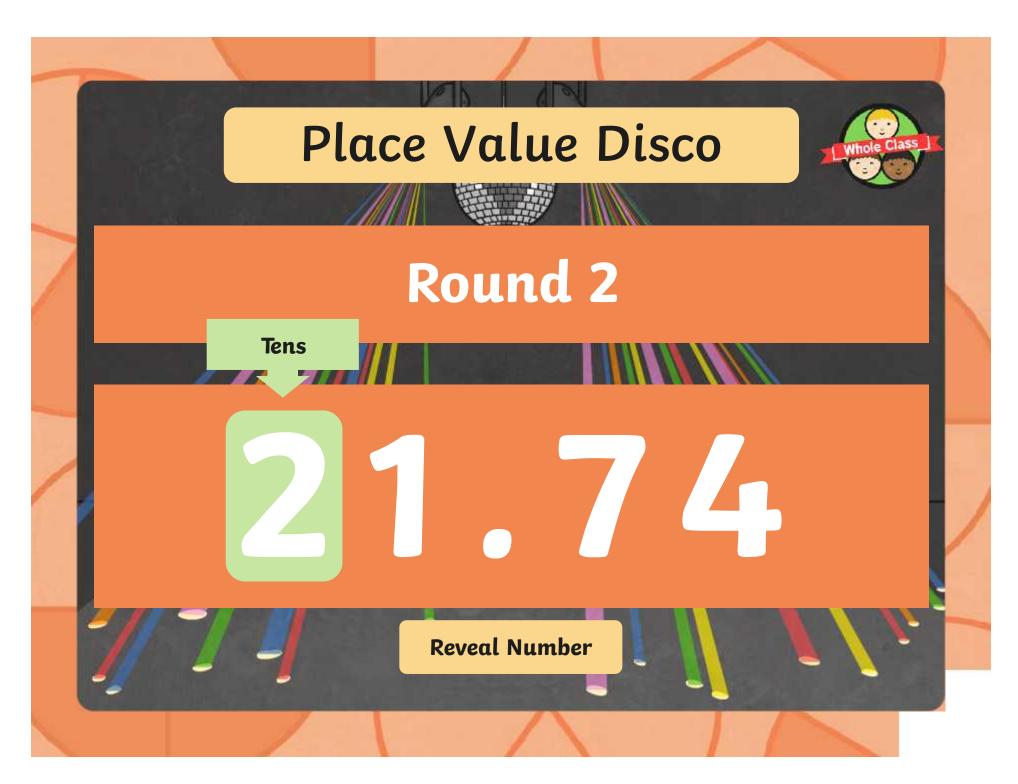
When the music plays, you can move around the room.

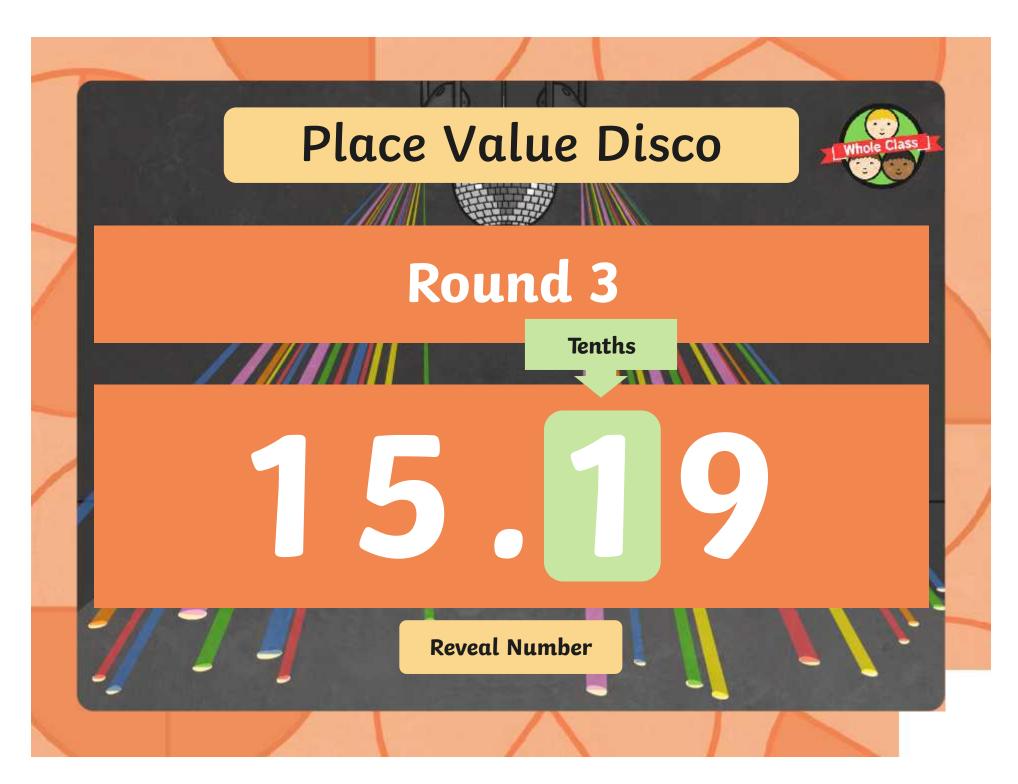
When the music stops, you should move to stand at one of the place value posters.

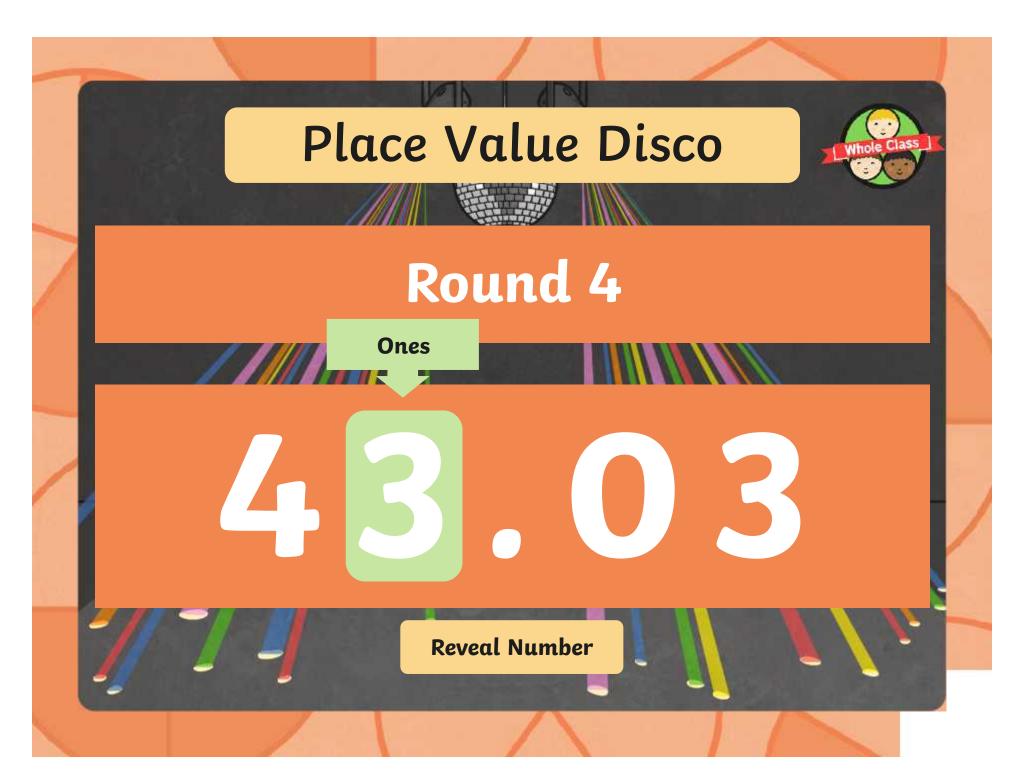
When the music stops a decimal number will be shown on the board. If the highlighted digit in this number is in the place value column of the station you chose to stand at, you score a point. Keep track of your own points.

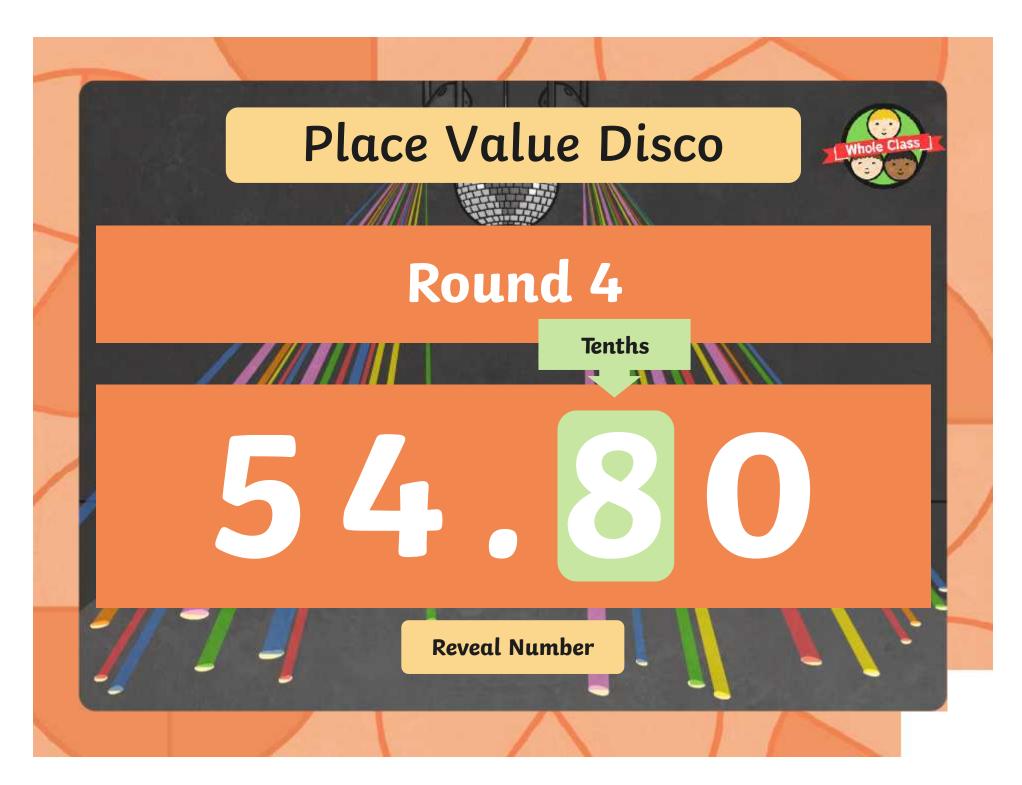
Who will earn the most points?

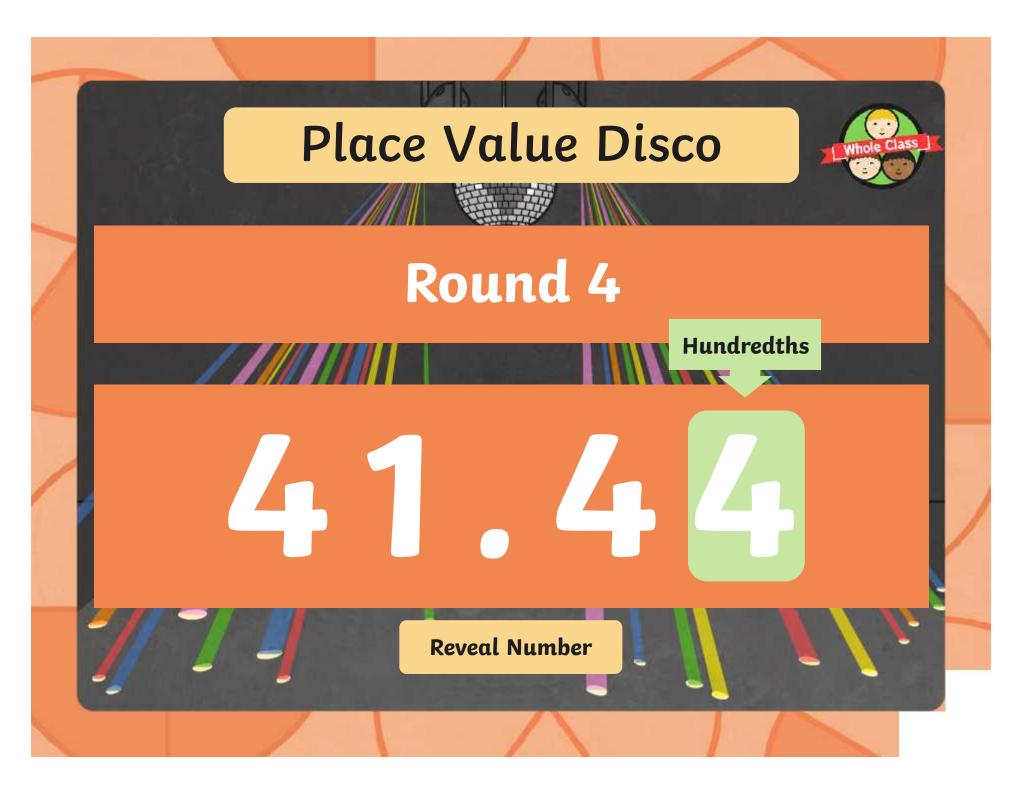












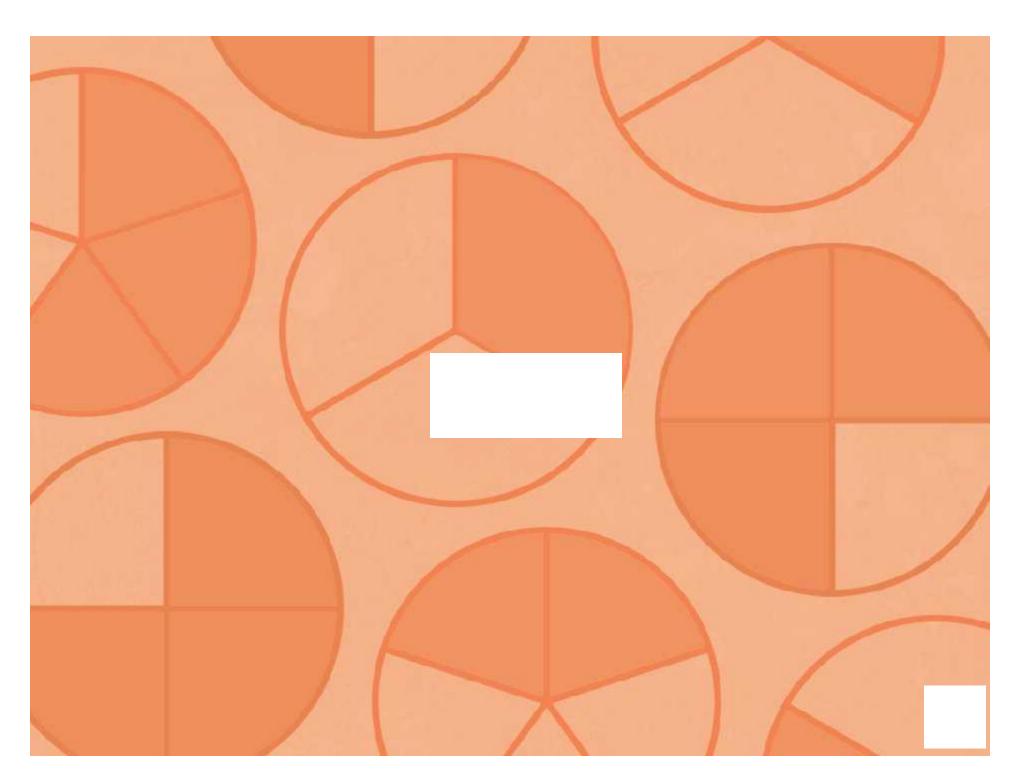
## Aim



• I can read and write decimal numbers as fractions.

## Success Criteria

- I can explain the place value position of decimal numbers using the vocabulary of tenths and hundredths.
- I can write a decimal number as a fraction.
- I can use Venn and Carroll diagrams to sort decimal numbers.



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#### Fractions | Decimal Numbers as Fractions

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