

Decimal Numbers as Fractions

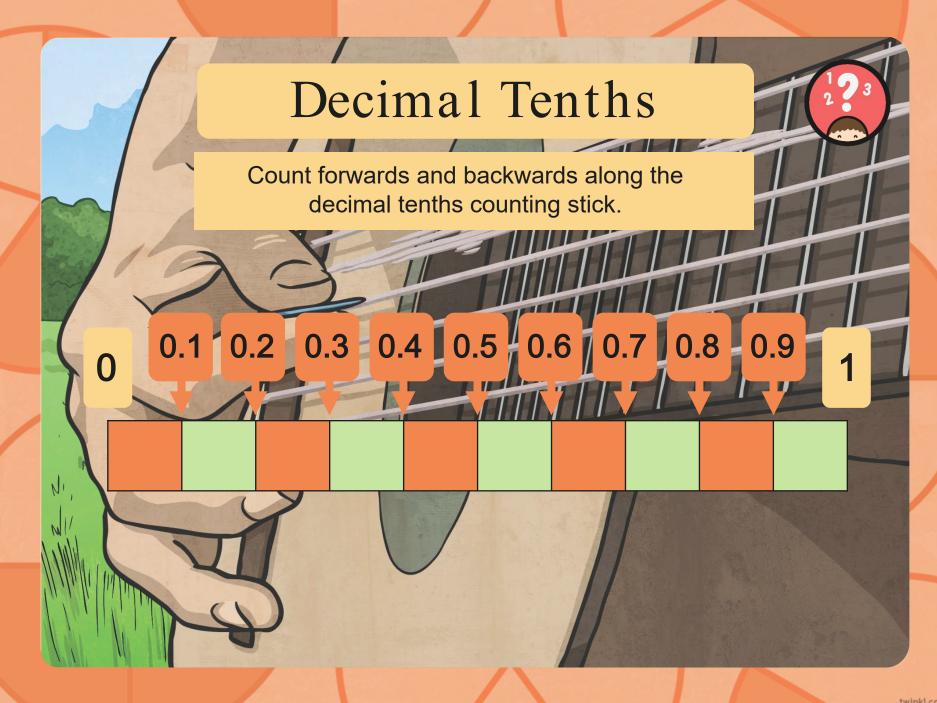


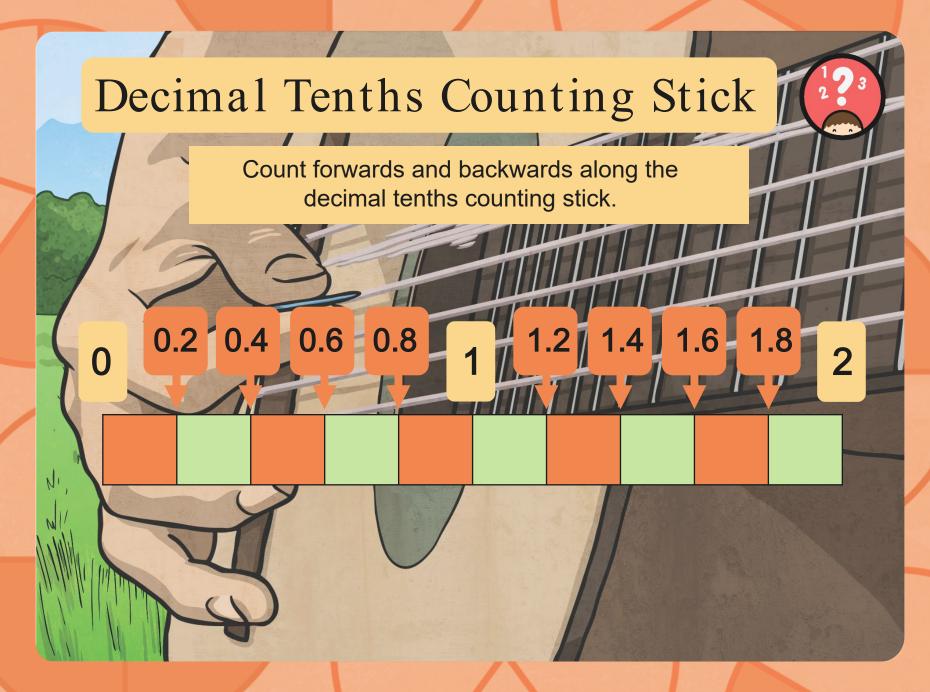
Aim

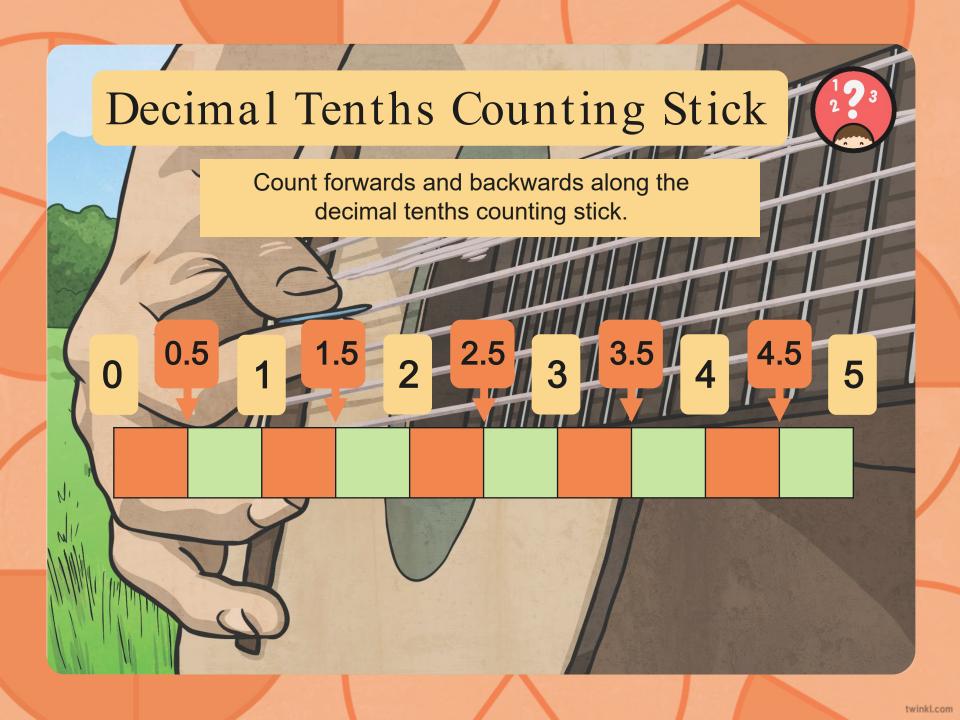
I can read and write decimal numbers as fractions.

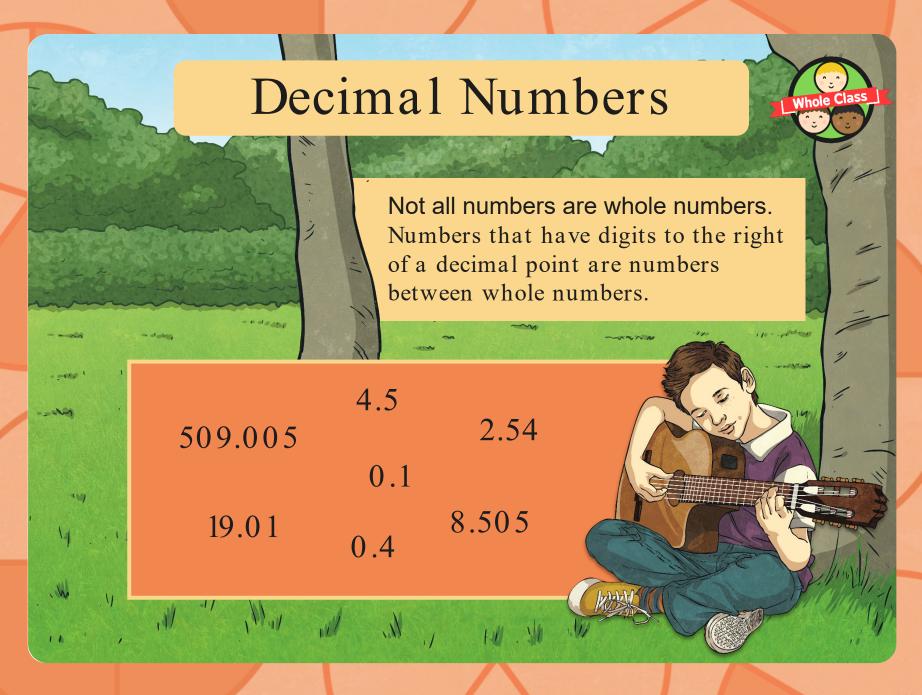
Success Criteria

- 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.











Let's explore the place value of a decimal number.

Any digit immediately to the **right of the** decimal point is a tenth.

Ones

Tenths

0 · 3

$$0.3 = \frac{3}{10}$$

This decimal number has three tenths.



Let's explore the place value of a decimal number.

Any digit immediately to the **right of the** decimal point is a tenth.

Ones

Tenths

0 . 8

$$0.8 = \frac{8}{10}$$

This decimal number has eight tenths.



Let's explore the place value of a decimal number.

Any digit immediately to the **right of the** decimal point is a tenth.

Ones

Tenths

0 · 2

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

This decimal number has two tenths.



Let's explore the place value of a decimal number.

Any digit immediately to the **right of the** decimal point is a tenth.

Ones

Tenths

0 • 9

$$0.9 = \frac{9}{10}$$

This decimal number has nine tenths.



Let's explore the place value of a decimal number.

Any digit immediately to the **right of the** tenth column is a hundredth.

Ones	Tenths	Hundredth
0	3	5

$$0.35 = \frac{35}{100}$$

This decimal number has three tenths.

This decimal number has five hundredths.



Let's explore the place value of a decimal number.

Any digit immediately to the **right of the** tenth column is a hundredth.

Ones

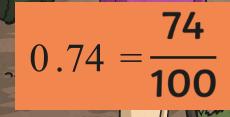
Tenths

Hundredth

0

7

4



This decimal number has seven tenths.

This decimal number has four hundredths.



Let's explore the place value of a decimal number.

Any digit immediately to the **right of the** tenth column is a hundredth.

	4	
Ones	Tenths	Hundredth

$$0.18 = \frac{18}{100}$$

This decimal number has one tenth.

This decimal number has eight hundredths.



Let's explore the place value of a decimal number.

Any digit immediately to the **right of the** tenth column is a hundredth.

Ones

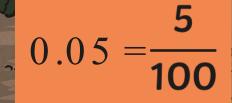
Tenths

Hundredth

0

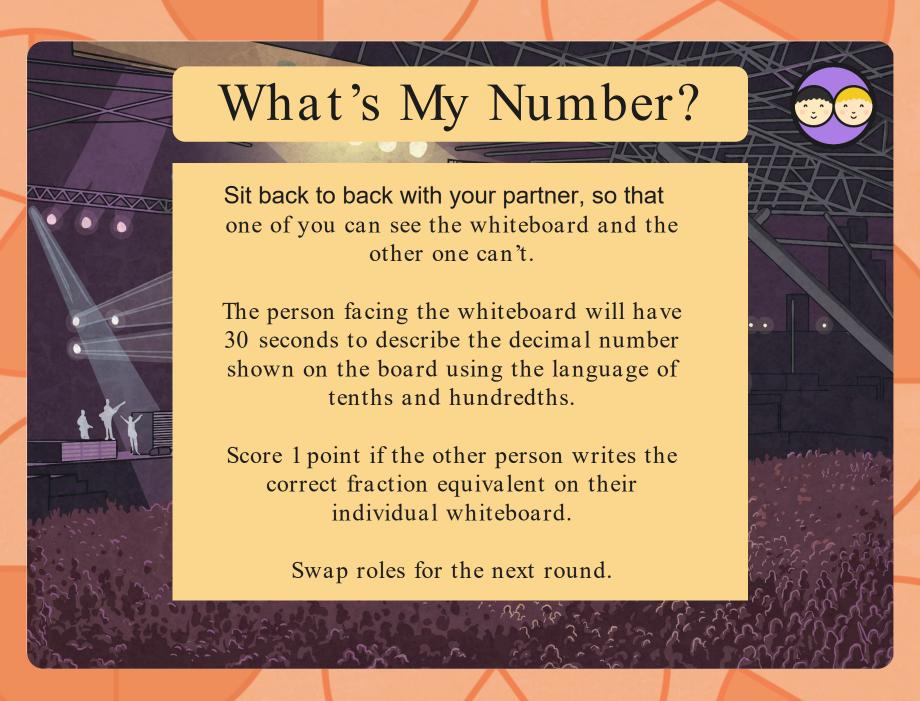
0

5



This decimal number has zero tenths.

This decimal number has five hundredths.







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?



Round 1

Hundredths

90.65

Place Value Disco Round 2 **Tens**



Round 3

Tenths

15.19



Round 4

Ones

483.03



Round 4

Tenths

54.80



Round 4

Hundredths

41.44

