

Curriculum Goal:

- I understand and apply my knowledge decimals to 2dp and link to fractions and percentages.

Unit 11
Decimals and percentages

Do you still see well?

- Read and write decimals up to three decimal places, including numbers greater than 1.
- Round decimals to nearest whole number and to one decimal place.
- Order and compare decimal numbers up to three decimal places.
- Write percentages as fractions and as decimals.

Do you remember what this is about? We use it to understand the place value of digits in a number. How would you place 0.5 into the grid?

100	10	1	0.1	0.01

Writing decimals 1

Discover

What does the same and what is different about these two representations?

1. Order the cards in the '100 one out' which number is different? Explain why.

2. Explain how to change the addition and subtraction the other number representations.

Writing decimals 2

Discover

1. What is the same?

2. What is different?

3. Represent this number in different ways.

Decimals as fractions 1

Discover

1. Where is the fraction on the clock? What does the fraction on the clock mean?

2. What is the fraction on the clock? What does the fraction on the clock mean?

Decimals as fractions 2

Discover

1. Write the money required for the game app as a fraction.

2. Write the money required for the music app as a fraction in two different ways. Explain your answer.

Starter
Pages 174-175

1. Writing decimals (1)
Pages 176-179

2. Writing decimals (2)
Pages 180-183

3. Decimals as fractions (1)
Pages 184-187

4. Decimals as fractions (2)
Pages 188-191

Understanding thousandths

Discover

1. A fraction has been shaded in each of the three diagrams. Write each as a fraction and as a decimal.

2. Write the decimal for each of the three diagrams.

Writing thousandths as decimals

Discover

1. How much flour has Sam measured?

2. Write the decimal on a place value grid.

Ordering and comparing decimals 1

Discover

1. Order the results from greatest to least. Why has the greatest result been 1.2?

2. Convert the decimals to fractions. Use this to check the comparison made in 1.

Ordering and comparing decimals 2

Discover

1. What is in first place, second place and third place?

2. What is the difference between the two places?

Rounding decimals

Discover

1. Do you agree with Sam that all of the boxes weigh approximately 1 kg? Round each weight to the nearest whole number.

2. A 100g box weighs 0.1 kg. What would it weigh?

5. Understanding thousandths
Pages 192-195

6. Writing thousandths as decimals
Pages 196-199

7. Ordering and comparing decimals (1)
Pages 200-203

8. Ordering and comparing decimals (2)
Pages 204-207

9. Rounding decimals
Pages 208-211

Understanding percentages

Discover

1. How many shaded squares are there on the grid? How much of the grid is shaded?

2. How many shaded squares are there on the grid? How much of the grid is shaded?

Percentages as fractions and decimals

Discover

1. Write the fraction and decimal in a place value grid.

2. Write the fraction and decimal in a place value grid.

Equivalent fractions, decimals and percentages

Discover

1. Look at the progress in each of the three. What fraction, percentage and decimal of the board is covered by each team?

2. What fraction, percentage and decimal of the board is covered by each team?

10. Understanding percentages
Pages 212-215

11. Percentages as fractions and decimals
Pages 216-219

12. Equivalent fractions, decimals and percentages
Pages 220-223