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Math

Decimals, operations and patterns

Main Summary

Primary 5

Term 1

Free Sample



- Decimal Place Value and Computation
- Number Relationships
- Multiplication with Whole Numbers
- Division with Whole Numbers
- Multiplication and Division with Decimals
- Numerical Expressions and Patterns

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Unit 1

Decimal Place Value and Computation

- Welcome, math champion!
- We read, write, compose and decompose decimals to the thousandths place.
- We compare and round decimals, and estimate their sums and differences.
- Then we add and subtract decimals to solve real-life problems.



1 Decimals to the Thousandths
2 Place Value Shuffle
3 Composing and Decomposing
4 Comparing and Rounding
5 Estimating Sums
6 Decimal Addition
7 Subtraction and Estimating Differences
8 Subtracting to the Thousandths
9 Decimal Story Problems

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Lesson 1

Decimals to the Thousandths Place

Book: p. 3–6

Contents

Today's goal

Read and write decimal numbers to the thousandths place.

Place value chart

- Ones: 0
- Tenths: 8
- Hundredths: 7
- Thousandths: 5

Lesson ideas

1. A **decimal** is a number with a decimal point: the digits to the left are a whole number, and the digits to the right are parts of one.
2. The first place after the decimal point is the **tenths**, then the **hundredths**, then the **thousandths**.
3. One whole = 10 tenths = 100 hundredths = 1,000 thousandths.
4. If we divide a square into 1,000 equal parts, each part is 0.001.
5. We read 0.875 as: eight hundred seventy-five thousandths.
6. We read 1.27 as: one and twenty-seven hundredths.
7. Example: a purple heron weighs 0.65 kg: 6 is in the tenths place and 5 is in the hundredths place.

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Lesson 1

Decimals to the Thousandths Place

Book: p. 3–6

New words

Decimal A number with a decimal point.

Decimal point Separates the whole number from the parts of one.

Thousandth One of 1,000 equal parts: 0.001.

Place value The value of a digit based on its place.

Remember

To the right of the decimal point: tenths, then hundredths, then thousandths.

In my life

A liter of petrol costs 6.75 LE: 6 whole pounds and 75 hundredths of a pound.

Family activity

Look for decimal numbers on food packages with your family, read them aloud and name the value of each digit.

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Lesson 2

Place Value Shuffle

Book: p. 7–10

Contents

Today's goal

Explain how a digit changes value as it moves to the left or right in a number.

Multiplying and dividing by 10

- 57 × 10 = 570
- 57 ÷ 10 = 5.7
- 0.3 × 10 = 3

Lesson ideas

1. Each place is **10 times** the place to its right, and 1/10 of the place to its left.
2. When we multiply by 10, the digits move one place to the **left**, so each digit becomes 10 times greater.
3. Example: 57 × 10 = 570: the value of 5 changed from 50 to 500.
4. When we divide by 10, the digits move one place to the **right**, so each digit becomes 1/10 of its value.
5. Example: 57 ÷ 10 = 5.7: the value of 7 changed from 7 to 0.7.
6. If a digit moves two places to the left, its value becomes 100 times greater.
7. This pattern works for both whole numbers and decimals.

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Lesson 2

Place Value Shuffle

Book: p. 7–10

New words

Place The position of a digit in a number.

Factor of 10 Becoming 10 times greater or smaller.

Pattern A rule that repeats.

Value What a digit is worth in its place.

Remember

× 10 moves the digits left; ÷ 10 moves the digits right.

In my life

10 packs at 65 piasters each: 65 × 10 = 650 piasters.

Family activity

Choose a number with your family, multiply it by 10 and then divide it by 10, and watch the digits move.

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Lesson 3

Composing and Decomposing Decimals

Book: p. 11–14

Contents

Today's goal

Compose and decompose decimals in multiple ways.

Decomposing a decimal

- 2 + 0.3 + 0.04 + 0.005
- 2 + 0.34 + 0.005
- 2.3 + 0.045

Lesson ideas

1. **Decompose**: write a number as a sum of its parts.
2. **Expanded form**: write the value of each digit, like 2.345 = 2 + 0.3 + 0.04 + 0.005.
3. We can decompose in other ways too, like 2.345 = 2 + 0.34 + 0.005 or 2.3 + 0.045.
4. **Compose**: add the parts to get the number in standard form.
5. **Standard form**: the usual way of writing a number, like 4.07.
6. **Word form**: writing the number in words, like “four and seven hundredths”.
7. Zero holds an empty place: 4 + 0.07 = 4.07, not 4.7.

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Composing and Decomposing Decimals

New words

Decompose Break a number into parts.

Compose Put parts together to make a number.

Expanded form The sum of the values of the digits.

Standard form The usual way of writing a number.

Remember

Use expanded form or other ways, and write a zero in an empty place.

In my life

A 3.25 km walk is 3 km and 250 m, that is 3 + 0.2 + 0.05.

Family activity

Decompose the price of an item in two different ways with your family.

Lesson 4

Comparing and Rounding Decimals

Book: p. 15–19

Contents

Today's goal

Compare decimals to the thousandths place and round them to the nearest tenth, hundredth or thousandth.

Comparing and rounding

0.45 > 0.405

0.7 = 0.70

Round: 5 or more, add 1

Lesson ideas

1. To **compare**: line up the decimal points, then compare place by place from the left.
2. Example: 0.45 and 0.405: the tenths are equal; in the hundredths 5 is greater than 0, so 0.45 > 0.405.
3. Zeros on the right do not change the value: 0.45 = 0.450.
4. To **round**: find the rounding place and look at the digit to its right.
5. If that digit is 5 or more, add 1 to the rounding place; if it is less than 5, the place stays the same.
6. Example: 3.468 to the nearest tenth is 3.5, and to the nearest hundredth is 3.47.
7. **Midpoint strategy**: find the midpoint between the two numbers on a number line.

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Lesson 4

Comparing and Rounding Decimals

Book: p. 15–19

New words

Compare Decide which number is greater or less.

Round Find a nearby number that is easier to use.

Midpoint The number halfway between two numbers.

Symbol ≈ Means “is approximately equal to”.

Remember

Line up the points and compare from the left; to round, look at the digit to the right of the place.

In my life

One temperature is 24.6 and another is 24.58: the first is higher, because 6 tenths is more than 5 tenths.

Family activity

Round the prices of your shopping to the nearest pound with your family before you pay.

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