TEACHER KEY · LESSON WORKSHEET · GRADE 5 · 5.NS.1 · 5.NS.3 · 5.CA.9-5.CA.10

Decimal Place Value & Operations

Fill in each part when its number appears on the slide.

PART 1 · TARGET

I can compare and round decimals and add, subtract, multiply, and divide decimals using place value.

PART 2 · WARM-UP

1. Write 0.7 as a fraction and in words.
   Key: 7/10, seven tenths.
2. Which is greater: 0.5 or 0.45? Explain.
   Key: 0.5, because 0.50 has 50 hundredths and 0.45 has 45 hundredths.
3. You buy a snack for $1.25 and pay with $2.00. How much change?
   Key: $0.75.

PART 3 · PREDICTION

Which is bigger: 0.5 or 0.45?

Circle one: [ ] 0.5 [ ] 0.45 [ ] They are equal

PART 4 · VOCABULARY

Word	Meaning
Tenths / hundredths / thousandths	The first, second, and third places to the right of the decimal point.
Expanded form	A number written as a sum of each digit's value (3.45 = 3 + 0.4 + 0.05).
Round	Change a number to a nearby, simpler value.
Power of ten	10, 100, 1,000... Multiplying by 10 moves each digit one place left.

PART 5 · PLACE VALUE

Each place is 10 times the place to its right. 0.4 = 40 hundredths.

Check: In 4.382, what is the value of the 8?

Circle one: (A) 8 tenths (B) 8 ones (C) 8 thousandths (D) 8 hundredths

Key: (D) 8 hundredths. The 8 is in the hundredths place.

PART 6 · COMPARE DECIMALS

To compare decimals, line up the DECIMAL POINTS and compare from the LEFT.

Check: Which is greatest?

Circle one: (A) 0.069 (B) 0.607 (C) 0.7 (D) 0.65

Key: (C) 0.7. 7 tenths is more than 6 tenths.

PART 7 · ROUND

To round, look at the digit to the RIGHT. 5 or more rounds up.

Check: Round 7.863 to the nearest tenth.

Answer: _____

Key: 7.9. The hundredths digit is 6, so round up.

PART 8 · OPERATIONS

When adding decimals, line up the DECIMAL POINTS.

Check: 4.5 + 2.37 = ?

Answer: _____

Key: 6.87. 4.50 + 2.37 = 6.87.

PART 9 · WORKED EXAMPLE

1. Problem: 3.6 × 0.4.
2. Step 1: Multiply as whole numbers: 36 × 4 = 144.
3. Step 2: Count decimal places: one in 3.6, one in 0.4 -> two in all.
4. Step 3: 1.44.
5. Check with an estimate: about 4 × 0.4 = 1.6. 1.44 is close, so it makes sense.

PART 10 · WE DO

Solve: 3.6 × 0.4.

Answer: 1.44

PART 11 · YOU DO

Solve: 12.5 - 4.75

Answer: _____

Key: 7.75. 12.50 - 4.75 = 7.75.

PART 12 · WORK TIME: SPEEDWAY DECIMAL FIELD TRIP

Write each code piece as you earn it: Stop 1: S Stop 2: P Stop 3: E Stop 4: E Stop 5: D

Final code: SPEED

PART 13 · WRAP-UP

Was your prediction in Part 3 right? One thing I learned today:

Key: $0.75.