TEACHER KEY · LESSON WORKSHEET · GRADE 5 · 5.CA.3-5.CA.5 · 5.CA.7

Adding, Subtracting & Multiplying Fractions

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

PART 1 · TARGET

I can add, subtract, and multiply fractions with unlike denominators and use them to solve real-world problems.

PART 2 · WARM-UP

1. Write two fractions equivalent to 1/2.
   Key: Examples: 2/4, 3/6, 4/8.
2. Which is greater, 2/3 or 3/5? Show how you know.
   Key: 2/3 (10/15 vs. 9/15), or 2/3 ~ 0.67 > 0.6.
3. What is 3 × 4, and what is 1/2 of 12?
   Key: 12 and 6.

PART 3 · PREDICTION

You ate 1/2 of a pizza and your friend ate 1/3. Did you eat 2/5 together?

Circle one: [ ] Yes, 2/5 [ ] No, more than 2/5 [ ] No, less than 2/5

PART 4 · VOCABULARY

Word	Meaning
Denominator	The bottom number: how many equal parts make a whole.
Numerator	The top number: how many parts we have.
Common denominator	A shared multiple of the denominators, used to add or subtract.
Equivalent fractions	Fractions that name the same amount (1/2 = 3/6).

PART 5 · SAME-SIZE PIECES

To add fractions, I need a COMMON DENOMINATOR.

Check: What is a common denominator for 1/3 and 1/4?

Circle one: (A) 3 (B) 1 (C) 12 (D) 7

Key: (C) 12. 12 is the least common multiple of 3 and 4.

PART 6 · RENAME, THEN ADD

Add the NUMERATORS. The DENOMINATOR stays the same.

Check: 1/3 + 1/4 = ? (write a fraction)

Answer: _____

Key: 7/12. 4/12 + 3/12 = 7/12.

PART 7 · MIXED NUMBERS

When subtracting mixed numbers, I can REGROUP 1 whole as a fraction like 4/4.

Check: 3 1/4 - 1 3/4 = ? (mixed number)

Answer: _____

Key: 1 2/4. 2 5/4 - 1 3/4 = 1 2/4 = 1 1/2.

PART 8 · MULTIPLY FRACTIONS

To multiply fractions, multiply the NUMERATORS and the DENOMINATORS.

Check: 2/3 × 3/4 = ? (simplest form)

Answer: _____

Key: 1/2. 6/12 = 1/2.

PART 9 · WORKED EXAMPLE

1. Problem: 1/2 + 1/3.
2. Step 1: Halves and thirds are different sizes. Both fit into sixths.
3. Step 2: 1/2 = 3/6 and 1/3 = 2/6.
4. Step 3: 3/6 + 2/6 = 5/6.
5. Check: 5/6 is close to 1, and half a pizza plus a third is almost a whole. 2/5 was wrong.

PART 10 · WE DO

Solve: 2 1/3 + 1 3/4.

Answer: 4 1/12

PART 11 · YOU DO

Solve: 3/4 - 1/3 (write a fraction)

Answer: _____

Key: 5/12. 9/12 - 4/12 = 5/12.

PART 12 · WORK TIME: THE PIZZA PARLOR LOCKDOWN

Write each code piece as you earn it: Lock 1: S Lock 2: L Lock 3: I Lock 4: C Lock 5: E

Final code: SLICE

PART 13 · WRAP-UP

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

Key: 12 and 6.