LESSON MAKER PRO

Fraction Multiplication Moves

Multiply whole numbers by fractions less than one.

GRADE 4 · 4.NF.B.16.b

4.NF.B.16.b "Extend previous understanding of multiplication to multiply a whole number times any fraction less than one."

NAME _____ DATE _____

KEEP THE DENOMINATOR

To multiply a whole number by a fraction, multiply the whole number by the numerator and keep the denominator. Simplify your answer when you can.

WORKED EXAMPLE

Find 9 x 2/13.

1. Multiply the whole number by the numerator: 9 x 2 = 18.
2. Keep the denominator: 18/13.

Answer: 18/13

PRACTICE 6 problems

1 Find 4 x 3/8.

ANSWER _____

2 Find 3 x 4/6.

ANSWER _____

3 Find 6 x 3/10.

ANSWER _____

4 Find 5 x 4/7.

ANSWER _____

5 Find the missing numerator: 6 x ___/8 = 18/8.

ANSWER _____

6 Which is greater, 4 x 3/7 or 5 x 3/7? Write the greater product.

ANSWER _____

APPLY IT Show your work

1 Each poster for your school fair uses 2/5 yard of ribbon. You make 4 posters. How many yards of ribbon do you use?

WORK SPACE

ANSWER _____

2 You add 3/4 cup of frozen fruit to each smoothie. You make 6 smoothies. How many cups of fruit do you need?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Leo says 5 x 3/8 = 15/40 because he multiplied both the numerator and denominator by 5. In one sentence, explain his mistake and give the correct product.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Multiplication Moves

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Find 4 x 3/8.	**3/2**
2	Find 3 x 4/6.	**2**
3	Find 6 x 3/10.	**9/5**
4	Find 5 x 4/7.	**20/7**
5	Find the missing numerator: 6 x ___/8 = 18/8.	**3**
6	Which is greater, 4 x 3/7 or 5 x 3/7? Write the greater product.	**15/7**

PART 2 · APPLY IT

1. **8/5 yards** Multiply 4 x 2/5 = 8/5 yards, or 1 3/5 yards.
2. **9/2 cups** Multiply 6 x 3/4 = 18/4 = 9/2 cups, or 4 1/2 cups.

CHALLENGE

Leo should multiply only the numerator by 5, so 5 x 3/8 = 15/8.

Accept equivalent fractions and mixed numbers. For the challenge, the sentence must identify the denominator error and give 15/8 or 1 7/8.