ALBERT

Name _____ Date _____

Multiplying Fractions by Whole Numbers Worksheet

Grade 4 · Common Core 4.NF.B.4b

> Understand a multiple of a/b as a multiple of 1/b, and use this understanding to multiply a fraction by a whole number. For example, use a visual fraction model to express 3 × (2/5) as 6 × (1/5), recognizing this product as 6/5. (In general, n × (a/b) = (n × a)/b.)

Practice

Builds the skill step by step.

1. Fill in the box: $3 \times \frac{2}{5} = \square \times \frac{1}{5}$

2. $3 \times \frac{2}{5} =$ ___

3. $2 \times \frac{3}{4} =$ ___

4. $4 \times \frac{2}{3} = ?$

   A. $\frac{8}{3}$

   B. $\frac{8}{12}$

   C. $\frac{6}{3}$

   D. $\frac{2}{12}$

5. $5 \times \frac{1}{6} =$ ___

6. $2 \times \frac{3}{8} =$ ___

7. $4 \times \frac{3}{10} =$ ___

8. Which sum means the same as $3 \times \frac{2}{6}$?

   A. $\frac{2}{6} + \frac{2}{6}$

   B. $\frac{3}{6} + \frac{2}{6}$

   C. $3 + \frac{2}{6}$

   D. $\frac{2}{6} + \frac{2}{6} + \frac{2}{6}$

9. $6 \times \frac{2}{12} =$ ___

10. $2 \times \frac{4}{5} =$ ___

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On Level

Grade-level practice.

1. $3 \times \frac{3}{4} =$ ___

2. $5 \times \frac{2}{3} =$ ___

3. $4 \times \frac{5}{8} =$ ___

4. Fill in the box: $7 \times \frac{2}{10} = \frac{\square}{10}$

5. $6 \times \frac{3}{5}$ is between which two whole numbers?

   A. 5 and 6

   B. 3 and 4

   C. 1 and 2

   D. 18 and 19

6. $3 \times \frac{5}{6} =$ ___

7. $8 \times \frac{3}{4} =$ ___

8. Fill in the box: $\square \times \frac{2}{3} = \frac{10}{3}$

9. Kim says $3 \times \frac{2}{5} = \frac{6}{15}$. Which is true?

   A. Kim is wrong. $3 \times \frac{2}{5} = \frac{2}{15}$.

   B. Kim is wrong. $3 \times \frac{2}{5} = \frac{5}{5}$.

   C. Kim is wrong. Only the number of fifths is multiplied: $3 \times \frac{2}{5} = \frac{6}{5}$.

   D. Kim is right.

10. $2 \times \frac{7}{12} =$ ___

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Challenge

Multi-step and word problems that stretch it.

1. Find $4 \times \frac{3}{8}$. Write the answer as a mixed number.

2. Fill in the box: $\square \times \frac{3}{10} = \frac{21}{10}$

3. Which is greater, $3 \times \frac{3}{4}$ or $2 \times \frac{5}{4}$?

   A. $2 \times \frac{5}{4}$

   B. $3 \times \frac{3}{4}$

   C. They are equal.

   D. You can't tell.

4. Find $5 \times \frac{4}{6}$. Write the answer as a mixed number.

5. $6 \times \frac{2}{3} =$ ___ (write it as a whole number)

6. $3 \times \frac{2}{5} + 2 \times \frac{1}{5} =$ ___

7. $9 \times \frac{2}{12} =$ ___

8. Which product equals $\frac{12}{8}$?

   A. $3 \times \frac{3}{8}$

   B. $2 \times \frac{8}{12}$

   C. $12 \times \frac{1}{12}$

   D. $4 \times \frac{3}{8}$

9. Fill in the box: $5 \times \frac{\square}{10} = \frac{35}{10}$

10. $7 \times \frac{2}{3}$ is between which two whole numbers? Write the smaller number first.