ALBERT

Name _____ Date _____

Fractions as Multiples of Unit Fractions Worksheet

Grade 4 · Common Core 4.NF.B.4a

> Understand a fraction a/b as a multiple of 1/b. For example, use a visual fraction model to represent 5/4 as the product 5 × (1/4), recording the conclusion by the equation 5/4 = 5 × (1/4).

Practice

Builds the skill step by step.

1. Fill in the box: $\frac{5}{4} = \square \times \frac{1}{4}$

2. Fill in the box: $\frac{3}{8} = 3 \times \frac{1}{\square}$

3. $4 \times \frac{1}{5} =$ ___

4. Which product equals $\frac{7}{6}$?

   A. 7×6

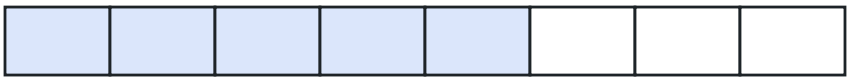
   B. 1×7

   C. $7 \times \frac{1}{6}$

   D. $6 \times \frac{1}{7}$

5. $6 \times \frac{1}{10} =$ ___

6. The shaded part of the bar equals $\square \times \frac{1}{8}$. What number goes in the box?



7. Fill in the box: $\frac{9}{12} = \square \times \frac{1}{12}$

8. $2 \times \frac{1}{3} =$ ___

9. How many copies of $\frac{1}{5}$ make $\frac{8}{5}$?

   A. 5

   B. 8

   C. 13

   D. 40

10. Fill in the box: $\frac{11}{10} = 11 \times \frac{1}{\square}$

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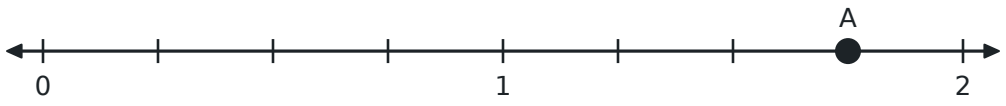
On Level

Grade-level practice.

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

2. Fill in the box: $\frac{12}{5} = \square \times \frac{1}{5}$

3. Point A is at $\square \times \frac{1}{4}$. What number goes in the box?



4. $3\frac{1}{2} = \square \times \frac{1}{2}$. What number goes in the box?

5. Which shows $\frac{4}{3}$ as a multiple of a unit fraction?

   A. $\frac{1}{3} + 4$

   B. $4 \times \frac{1}{3}$

   C. $3 \times \frac{1}{4}$

   D. 4×3

6. $8 \times \frac{1}{6} =$ ___

7. Fill in the box: $2 = \square \times \frac{1}{8}$

8. $7 \times \frac{1}{12} =$ ___

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

10. Rae says $3 \times \frac{1}{4} = \frac{3}{12}$. Which is true?

    A. Rae is wrong. $3 \times \frac{1}{4} = \frac{3}{4}$.

    B. Rae is right.

    C. Rae is wrong. $3 \times \frac{1}{4} = \frac{1}{12}$.

    D. Rae is wrong. $3 \times \frac{1}{4} = \frac{4}{3}$.

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Challenge

Multi-step and word problems that stretch it.

1. Fill in the box: $\square \times \frac{1}{6} = 2\frac{1}{6}$

2. How many copies of $\frac{1}{10}$ make $1\frac{4}{10}$?

3. $10 \times \frac{1}{10} =$ ___

4. Fill in the box: $\frac{15}{4} = \square \times \frac{1}{4}$

5. Which one does NOT equal $\frac{6}{8}$?

   A. $8 \times \frac{1}{6}$

   B. $3 \times \frac{2}{8}$

   C. $6 \times \frac{1}{8}$

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

6. Fill in the box: $\square \times \frac{1}{3} = 4$

7. A frog hops $\frac{1}{5}$ of a meter with each hop. How far does it go in 9 hops?

8. $12 \times \frac{1}{12} + 5 \times \frac{1}{12} =$ ___

9. Which is greater, $7 \times \frac{1}{8}$ or $5 \times \frac{1}{6}$?

   A. $7 \times \frac{1}{8}$

   B. $5 \times \frac{1}{6}$

   C. They are equal.

   D. You can't tell.

10. $\frac{5}{2} = 5 \times \frac{1}{2}$. Write $\frac{5}{2}$ as a mixed number.