ALBERT

Name _____ Date _____

Dividing Fractions Worksheet

Grade 6 · Common Core 6.NS.A.1

> Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.

Practice

Builds the skill step by step.

1. Divide: $3 \div \frac{1}{2}$

2. Divide: $\frac{1}{2} \div \frac{1}{4}$

3. Divide: $4 \div \frac{2}{3}$

4. Which expression has the same value as $\frac{3}{4} \div \frac{1}{8}$?

   A. $\frac{3}{4} \times \frac{1}{8}$

   B. $\frac{4}{3} \times \frac{1}{8}$

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

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

5. Divide: $\frac{2}{3} \div \frac{1}{3}$

6. Divide: $\frac{5}{6} \div \frac{1}{6}$

7. Divide: $\frac{3}{5} \div 3$

8. What is the reciprocal of $\frac{2}{7}$?

   A. $\frac{2}{7}$

   B. $\frac{1}{7}$

   C. 7

   D. $\frac{7}{2}$

9. A rope is 6 feet long. How many $\frac{3}{4}$-foot pieces can be cut from it?

10. Divide: $\frac{1}{3} \div \frac{1}{6}$

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On Level

Grade-level practice.

1. Divide: $\frac{2}{3} \div \frac{3}{4}$

2. Divide: $\frac{5}{8} \div \frac{1}{2}$

3. Divide: $\frac{3}{4} \div \frac{5}{6}$

4. Which story fits $\frac{3}{4} \div \frac{1}{8}$?

   A. What is $\frac{1}{8}$ of $\frac{3}{4}$ cup of rice?

   B. How many $\frac{1}{8}$-cup scoops are in $\frac{3}{4}$ cup of rice?

   C. How much rice is left after using $\frac{1}{8}$ cup from $\frac{3}{4}$ cup?

   D. How much rice is $\frac{3}{4}$ cup plus $\frac{1}{8}$ cup?

5. How many $\frac{2}{3}$-cup servings are in 4 cups of yogurt?

6. Divide: $\frac{7}{10} \div \frac{2}{5}$

7. A $\frac{3}{4}$-mile path has a bench every $\frac{1}{8}$ mile, starting $\frac{1}{8}$ mile in. How many benches are on the path?

8. Divide: $\frac{9}{10} \div 3$

9. A board is $\frac{5}{6}$ yard long. It is cut into pieces that are each $\frac{5}{12}$ yard long. How many pieces are there?

   A. $\frac{25}{72}$

   B. $\frac{1}{2}$

   C. 2

   D. $\frac{10}{12}$

10. Divide: $\frac{4}{5} \div \frac{2}{3}$

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Challenge

Multi-step and word problems that stretch it.

1. A rectangle has an area of $\frac{3}{4}$ square meter and a length of $\frac{5}{6}$ meter. What is its width?

2. Jay has $2\frac{1}{2}$ cups of flour. Each batch of muffins needs $\frac{3}{4}$ cup. How many full batches can he make?

3. Divide: $3\frac{1}{3} \div \frac{5}{6}$

4. A $\frac{2}{3}$-pound bag of trail mix is shared equally among 4 friends. How many pounds does each friend get?

5. Which quotient is greater than 1?

   A. $\frac{2}{3} \div \frac{5}{6}$

   B. $\frac{1}{2} \div \frac{3}{4}$

   C. $\frac{3}{8} \div \frac{1}{2}$

   D. $\frac{5}{6} \div \frac{2}{3}$

6. A recipe uses $\frac{3}{8}$ cup of oil for every $\frac{3}{4}$ cup of sugar. How many cups of oil is that per cup of sugar?

7. A runner ran $4\frac{1}{2}$ miles in $\frac{3}{4}$ hour. What was her speed in miles per hour?

8. Eva says $\frac{1}{2} \div \frac{1}{4} = \frac{1}{8}$. What mistake did she make, and what is the correct quotient?

9. A garden bed is $\frac{5}{8}$ of an acre. It is split into sections that are each $\frac{1}{16}$ of an acre. Then 3 sections are planted with corn. How much of an acre is not planted with corn?

10. A ribbon $\frac{7}{8}$ yard long is cut into pieces that are $\frac{1}{4}$ yard long. How many full pieces are there, and how much ribbon is left over?