ALBERT

Name _____ Date _____

Fractions as Division Worksheet

Grade 5 · Common Core 5.NF.B.3

> Interpret a fraction as division of the numerator by the denominator (a/b = a ÷ b). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem. For example, interpret 3/4 as the result of dividing 3 by 4, noting that 3/4 multiplied by 4 equals 3, and that when 3 wholes are shared equally among 4 people each person has a share of size 3/4. If 9 people want to share a 50-pound sack of rice equally by weight, how many pounds of rice should each person get? Between what two whole numbers does your answer lie?

Practice

Builds the skill step by step.

1. Write 3 ÷ 4 as a fraction.

2. Write $\frac{5}{8}$ as a division expression.

3. Which division is equal to $\frac{7}{3}$?

   A. 7 ÷ 3

   B. 3 ÷ 7

   C. 7 × 3

   D. 10 ÷ 3

4. 4 friends share 3 granola bars equally. How much of a granola bar does each friend get?

5. 2 ÷ 5 = ? Write the quotient as a fraction.

6. 9 ÷ 2 = ? Write the quotient as a mixed number.

7. 5 children share 2 pies equally. How much pie does each child get?

8. 6 people share 4 pounds of clay equally. Which expression shows how many pounds each person gets?

   A. $6 - 4$

   B. $4 \div 6$

   C. 4×6

   D. $6 \div 4$

9. 11 ÷ 4 = ? Write the quotient as a mixed number.

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

ALBERT

Name _____ Date _____

Fractions as Division Worksheet

Grade 5 · Common Core 5.NF.B.3

On Level

Grade-level practice.

1. 8 students share 30 feet of ribbon equally. How many feet of ribbon does each student get? Write your answer as a mixed number in simplest form.

2. 47 ÷ 6 is between which two whole numbers?

3. A 3-liter jug of water is poured equally into 8 bottles. How much water goes into each bottle?

4. 7 friends share 3 pizzas equally. Which statement is true?

   A. Each friend gets $\frac{3}{7}$ of a pizza, which is more than half a pizza.

   B. Each friend gets $\frac{7}{3}$ pizzas.

   C. Each friend gets $\frac{1}{7}$ of a pizza.

   D. Each friend gets $\frac{3}{7}$ of a pizza, which is less than half a pizza.

5. A coach has 25 liters of water to split equally among 4 coolers. How many liters go in each cooler?

6. A rope 17 meters long is cut into 5 equal pieces. How long is each piece?

7. Ms. Lee shares 5 sheets of poster paper equally among 6 groups. How much paper does each group get?

8. A 12-pound bag of dog food lasts 5 weeks. The same amount is used each week. How many pounds are used each week?

9. Which situation has an answer of $\frac{4}{5}$?

   A. 5 cookies are shared equally by 4 children. How much does each child get?

   B. 4 children each get 5 cookies. How many cookies is that?

   C. 4 cookies are shared equally by 5 children. How much does each child get?

   D. 5 children each get 4 cookies. How many cookies is that?

10. 13 ÷ 3 = ? Write the quotient as a mixed number.

Fractions as Division Worksheet

Grade 5 · Common Core 5.NF.B.3

Challenge

Multi-step and word problems that stretch it.

1. A baker splits 20 pounds of dough equally into 6 loaves. The weight of each loaf is between which two whole numbers of pounds?

2. A baker splits 20 pounds of dough equally into 6 loaves. How many pounds is each loaf? Write your answer as a mixed number in simplest form.

3. In Group A, 3 people share 2 pizzas equally. In Group B, 5 people share 3 pizzas equally. In which group does each person get more pizza?

4. Ana shared some crackers equally among 4 friends. Each friend got $2\frac{1}{2}$ crackers. How many crackers did Ana share?

5. Which division has a quotient between 2 and 3?

   A. $7 \div 2$

   B. $9 \div 4$

   C. $5 \div 6$

   D. $13 \div 4$

6. A 2-mile relay is split equally among 3 runners. How far does each runner go?

7. Jesse says that when 5 people share 4 sandwiches equally, each person gets $\frac{5}{4}$ sandwiches. What is the correct share?

8. A teacher has 45 minutes for 6 student talks of equal length. How long is each talk? Write your answer as a mixed number in simplest form.

9. A 10-foot board is cut into 8 equal pieces. How long is each piece? Write your answer as a mixed number in simplest form.

10. Which is NOT equal to $6 \div 4$?

    A. $\frac{6}{4}$

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

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

    D. $\frac{4}{6}$