ALBERT

Name _____ Date _____

Multiplying Fractions Word Problems Worksheet

Grade 4 · Common Core 4.NF.B.4c

> Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem. For example, if each person at a party will eat 3/8 of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?

Practice

Builds the skill step by step.

1. At a party, each of 5 people will eat $\frac{3}{8}$ of a pound of roast beef. How many pounds of roast beef are needed?

2. A recipe uses $\frac{2}{3}$ of a cup of oats for each batch. How many cups are needed for 4 batches?

3. One lap around the track is $\frac{1}{4}$ of a mile. How far is 6 laps?

4. Kim drinks $\frac{3}{4}$ of a cup of milk each day for 3 days. Which equation finds m, the cups she drinks?

   A. $3 \times \frac{3}{4} = m$

   B. $3 + \frac{3}{4} = m$

   C. $\frac{3}{4} - 3 = m$

   D. $3 \times \frac{4}{3} = m$

5. Each bow uses $\frac{2}{5}$ of a meter of ribbon. How much ribbon is needed for 4 bows?

6. Ali walks $\frac{7}{10}$ of a kilometer to school each day. How far does he walk in 2 days?

7. Each muffin needs $\frac{1}{6}$ of a cup of sugar. How much sugar is needed for 9 muffins?

8. Each bag holds $\frac{5}{12}$ of a pound of trail mix. How much trail mix is in 3 bags?

9. 5 people each eat $\frac{3}{8}$ of a pound of beef. Between which two whole numbers is the total amount?

   A. 0 and 1

   B. 1 and 2

   C. 2 and 3

   D. 15 and 16

10. Jen practices guitar for $\frac{1}{3}$ of an hour each day. How many hours does she practice in 7 days?

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On Level

Grade-level practice.

1. Each costume needs $\frac{3}{4}$ of a yard of fabric. How much fabric is needed for 6 costumes? Write a mixed number.

2. Ty walks $\frac{5}{6}$ of a mile to the park and $\frac{5}{6}$ of a mile back. How far does he walk? Write a mixed number.

3. A plant grows $\frac{3}{10}$ of an inch each week. How much does it grow in 8 weeks?

4. 7 hikers each carry $\frac{2}{3}$ of a liter of water. Between which two whole numbers is the total amount of water?

   A. 2 and 3

   B. 6 and 7

   C. 4 and 5

   D. 14 and 15

5. 4 friends each eat $\frac{2}{8}$ of a pizza. The pizzas are all the same size. How many whole pizzas do they eat in all?

6. Bo runs $\frac{4}{5}$ of a mile 3 times a week. How far does he run each week?

7. Ms. Ruiz pours $\frac{3}{4}$ of a liter of water into each of 5 bottles. How much water does she use?

8. It takes $\frac{2}{3}$ of a gallon of paint to paint one room. How many gallons are needed for 6 rooms? Write a whole number.

9. Each student gets $\frac{1}{4}$ of a sheet of stickers. What amount of stickers, in sheets, do 10 students get in all?

10. Which problem can be solved with $4 \times \frac{2}{5}$?

    A. Lu has 4 pounds of rice and uses $\frac{2}{5}$ of a pound. How much is left?

    B. There is $\frac{2}{5}$ of a pound of rice shared by 4 people. How much does each get?

    C. Lu has $\frac{2}{5}$ of a pound of rice and buys 4 more pounds. How much is there?

    D. Each of 4 bags holds $\frac{2}{5}$ of a pound of rice. How much rice is there?

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Challenge

Multi-step and word problems that stretch it.

1. 6 people at a party will each eat $\frac{3}{8}$ of a pound of turkey. Will a 2-pound package be enough?

   A. No. They need $2\frac{2}{8}$ pounds.

   B. Yes. They need $1\frac{6}{8}$ pounds.

   C. Yes. They need exactly 2 pounds.

   D. No. They need 18 pounds.

2. Mia has 4 cups of flour. Each batch of cookies uses $\frac{2}{3}$ of a cup. She makes 5 batches. How much flour is left?

3. Sam walks $\frac{3}{4}$ of a mile each day. Ty walks $\frac{2}{4}$ of a mile each day. How much farther does Sam walk than Ty in 5 days?

4. Each piece of rope is $\frac{5}{6}$ of a foot long. Gus has 4 pieces. Between which two whole numbers of feet is the total length? Write the smaller number first.

5. Each serving of soup is $\frac{3}{10}$ of a liter. How many servings are in $\frac{27}{10}$ liters?

6. Each of 3 turtles eats $\frac{2}{12}$ of a pound of food each day. How much food do they eat in 2 days?

7. Kai jogs $\frac{7}{8}$ of a mile 3 times. Lee jogs $\frac{5}{8}$ of a mile 4 times. How much farther does Kai jog?

8. Rina says $4 \times \frac{2}{3} = \frac{8}{12}$. What is the correct product?

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

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

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

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

9. A tank leaks $\frac{3}{5}$ of a liter of water every hour. How much water leaks out in 6 hours? Write a mixed number.

10. 10 friends will each eat $\frac{1}{4}$ of a pizza. What is the fewest whole pizzas they need to order?