Fractions as Division: Word Problems

Name: _____

Grade 5 · Sharing stories with fraction answers, then quotients placed between whole numbers

Write the division for each story, then solve it. In A, write an answer greater than 1 as a mixed number.

A. Solve each story.

1. 2 pizzas are shared equally by 3 friends. What fraction of a pizza does each friend get?

Division: _____

Answer: $\frac{\square}{\square}$ of a pizza

2. A 5-pound bag of rice is split equally into 8 jars. How many pounds of rice go in each jar?

Division: _____

Answer: $\frac{\square}{\square}$ pound

3. A ribbon 7 yards long is cut into 4 equal pieces. How long is each piece?

Division: _____

Answer: $\square\ \frac{\square}{\square}$ yards

4. 10 liters of water are poured equally into 3 jugs. How many liters are in each jug?

Division: _____

Answer: $\square\ \frac{\square}{\square}$ liters

5. 5 children share 6 muffins equally. How many muffins does each child get?

Division: _____

Answer: $\square\ \frac{\square}{\square}$ muffins

6. A trail 9 miles long is split into 2 equal parts. How long is each part?

Division: _____

Answer: $\square\ \frac{\square}{\square}$ miles

B. Which division matches the story? Circle it. Then write the answer.

7. 3 sandwiches are shared equally by 5 children. How much does each child get?

3 ÷ 5 **5 ÷ 3** $\frac{\square}{\square}$ sandwich

8. 5 sandwiches are shared equally by 3 children. How much does each child get?

3 ÷ 5 **5 ÷ 3** $\frac{\square}{\square}$ sandwiches

9. 6 friends share 5 pounds of grapes equally. How many pounds does each friend get?

6 ÷ 5 **5 ÷ 6** $\frac{\square}{\square}$ pound

10. A board 2 meters long is cut into 9 equal pieces. How long is each piece?

2 ÷ 9 **9 ÷ 2** $\frac{\square}{\square}$ meter

C. Each answer is between which two whole numbers?

11. **17 ÷ 5:** ___ and ___ **12.** **29 ÷ 6:** ___ and ___ **13.** **50 ÷ 7:** ___ and ___ **14.** **13 ÷ 4:** ___ and ___

Fractions as Division: Word Problems (Answer Key)

Grade 5 · Sharing stories with fraction answers, then quotients placed between whole numbers

Write the division for each story, then solve it. In A, write an answer greater than 1 as a mixed number.

A. Solve each story.

In A, an improper fraction such as 7/4 is right too. In B, 5/3 may also be written 1 2/3.

1. 2 pizzas are shared equally by 3 friends. What fraction of a pizza does each friend get?

Division: $2 \div 3 = \frac{2}{3}$

Answer: $\frac{2}{3}$ of a pizza

2. A 5-pound bag of rice is split equally into 8 jars. How many pounds of rice go in each jar?

Division: $5 \div 8 = \frac{5}{8}$

Answer: $\frac{5}{8}$ pound

3. A ribbon 7 yards long is cut into 4 equal pieces. How long is each piece?

Division: $7 \div 4 = 1\frac{3}{4}$

Answer: $1\frac{3}{4}$ yards

4. 10 liters of water are poured equally into 3 jugs. How many liters are in each jug?

Division: $10 \div 3 = 3\frac{1}{3}$

Answer: $3\frac{1}{3}$ liters

5. 5 children share 6 muffins equally. How many muffins does each child get?

Division: $6 \div 5 = 1\frac{1}{5}$

Answer: $1\frac{1}{5}$ muffins

6. A trail 9 miles long is split into 2 equal parts. How long is each part?

Division: $9 \div 2 = 4\frac{1}{2}$

Answer: $4\frac{1}{2}$ miles

B. Which division matches the story? Circle it. Then write the answer.

7. 3 sandwiches are shared equally by 5 children. How much does each child get?

(3 ÷ 5) 5 ÷ 3 — $\frac{3}{5}$ sandwich

8. 5 sandwiches are shared equally by 3 children. How much does each child get?

3 ÷ 5 (5 ÷ 3) — $\frac{5}{3}$ sandwiches

9. 6 friends share 5 pounds of grapes equally. How many pounds does each friend get?

6 ÷ 5 (5 ÷ 6) — $\frac{5}{6}$ pound

10. A board 2 meters long is cut into 9 equal pieces. How long is each piece?

(2 ÷ 9) 9 ÷ 2 — $\frac{2}{9}$ meter

C. Each answer is between which two whole numbers?

11. $17 \div 5$: 3 and 4 **12.** $29 \div 6$: 4 and 5 **13.** $50 \div 7$: 7 and 8 **14.** $13 \div 4$: 3 and 4