Name: _____ Date: _____

Dividing Unit Fractions Word Problems

Grade 5 | Solving word problems that divide unit fractions and whole numbers | Version 5 of 10

Read each problem. Write a division equation with a unit fraction and solve. Include the unit in your answer. Draw a picture if it helps.

1. A pitcher holds 6 liters of water. Each glass holds 1/7 liter. How many glasses can be filled?

Equation: _____ Answer: _____

2. There is 1/3 gallon of paint. 3 students share it equally. How much paint does each student get?

Equation: _____ Answer: _____

3. There is 1/5 of a pan of cornbread left. 2 friends share it equally. What fraction of the whole pan does each friend get?

Equation: _____ Answer: _____

4. Leo has 1/6 pound of trail mix. He puts the same amount into each of 6 bags. How many pounds of trail mix go in each bag?

Equation: _____ Answer: _____

5. Ana has 6 feet of ribbon. She cuts it into pieces that are each 1/6 foot long. How many pieces does she get?

Equation: _____ Answer: _____

6. A team walks 1/5 mile in 5 equal laps around the gym. How long is each lap?

Equation: _____ Answer: _____

7. A gardener has 9 pounds of seeds. Each row of the garden needs 1/3 pound of seeds. How many rows can be planted?

Equation: _____ Answer: _____

8. A baker has 7 cups of flour. Each batch of rolls uses 1/6 cup of flour. How many batches can the baker make?

Equation: _____ Answer: _____

Dividing Unit Fractions Word Problems - ANSWER KEY

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Read each problem. Write a division equation with a unit fraction and solve. Include the unit in your answer. Draw a picture if it helps.

1. A pitcher holds 6 liters of water. Each glass holds 1/7 liter. How many glasses can be filled?

Equation: **6 ÷ 1/7 = 42** Answer: **42 glasses**

2. There is 1/3 gallon of paint. 3 students share it equally. How much paint does each student get?

Equation: **1/3 ÷ 3 = 1/9** Answer: **1/9 gallon**

3. There is 1/5 of a pan of cornbread left. 2 friends share it equally. What fraction of the whole pan does each friend get?

Equation: **1/5 ÷ 2 = 1/10** Answer: **1/10 of the pan**

4. Leo has 1/6 pound of trail mix. He puts the same amount into each of 6 bags. How many pounds of trail mix go in each bag?

Equation: **1/6 ÷ 6 = 1/36** Answer: **1/36 pound**

5. Ana has 6 feet of ribbon. She cuts it into pieces that are each 1/6 foot long. How many pieces does she get?

Equation: **6 ÷ 1/6 = 36** Answer: **36 pieces**

6. A team walks 1/5 mile in 5 equal laps around the gym. How long is each lap?

Equation: **1/5 ÷ 5 = 1/25** Answer: **1/25 mile**

7. A gardener has 9 pounds of seeds. Each row of the garden needs 1/3 pound of seeds. How many rows can be planted?

Equation: **9 ÷ 1/3 = 27** Answer: **27 rows**

8. A baker has 7 cups of flour. Each batch of rolls uses 1/6 cup of flour. How many batches can the baker make?

Equation: **7 ÷ 1/6 = 42** Answer: **42 batches**