Dividing Unit Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems that divide unit fractions and whole numbers | Version 1 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. Leo has 1/2 pound of trail mix. He puts the same amount into each of 4 bags. How many pounds of trail mix go in each bag?

Equation: **1/2 ÷ 4 = 1/8** Answer: **1/8 pound**

2. A team walks 1/4 mile in 4 equal laps around the gym. How long is each lap?

Equation: **1/4 ÷ 4 = 1/16** Answer: **1/16 mile**

3. A pitcher holds 2 liters of water. Each glass holds 1/7 liter. How many glasses can be filled?

Equation: **2 ÷ 1/7 = 14** Answer: **14 glasses**

4. Ana has 4 feet of ribbon. She cuts it into pieces that are each 1/4 foot long. How many pieces does she get?

Equation: **4 ÷ 1/4 = 16** Answer: **16 pieces**

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

Equation: **1/5 ÷ 5 = 1/25** Answer: **1/25 of the pan**

6. A gardener has 9 pounds of seeds. Each row of the garden needs 1/2 pound of seeds. How many rows can be planted?

Equation: **9 ÷ 1/2 = 18** Answer: **18 rows**

7. There is 1/5 gallon of paint. 4 students share it equally. How much paint does each student get?

Equation: **1/5 ÷ 4 = 1/20** Answer: **1/20 gallon**

8. A baker has 2 cups of flour. Each batch of rolls uses 1/4 cup of flour. How many batches can the baker make?

Equation: **2 ÷ 1/4 = 8** Answer: **8 batches**

Dividing Unit Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems that divide unit fractions and whole numbers | Version 2 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 baker has 2 cups of flour. Each batch of rolls uses 1/7 cup of flour. How many batches can the baker make?

Equation: **2 ÷ 1/7 = 14** Answer: **14 batches**

2. A pitcher holds 5 liters of water. Each glass holds 1/7 liter. How many glasses can be filled?

Equation: **5 ÷ 1/7 = 35** Answer: **35 glasses**

3. A team walks 1/4 mile in 6 equal laps around the gym. How long is each lap?

Equation: **1/4 ÷ 6 = 1/24** Answer: **1/24 mile**

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

Equation: **1/4 ÷ 4 = 1/16** Answer: **1/16 pound**

5. There is 1/4 of a pan of cornbread left. 4 friends share it equally. What fraction of the whole pan does each friend get?

Equation: **1/4 ÷ 4 = 1/16** Answer: **1/16 of the pan**

6. Ana has 4 feet of ribbon. She cuts it into pieces that are each 1/5 foot long. How many pieces does she get?

Equation: **4 ÷ 1/5 = 20** Answer: **20 pieces**

7. A gardener has 8 pounds of seeds. Each row of the garden needs 1/4 pound of seeds. How many rows can be planted?

Equation: **8 ÷ 1/4 = 32** Answer: **32 rows**

8. There is 1/4 gallon of paint. 4 students share it equally. How much paint does each student get?

Equation: **1/4 ÷ 4 = 1/16** Answer: **1/16 gallon**

Dividing Unit Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems that divide unit fractions and whole numbers | Version 3 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 team walks 1/6 mile in 6 equal laps around the gym. How long is each lap?

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

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

Equation: **5 ÷ 1/6 = 30** Answer: **30 pieces**

3. A gardener has 3 pounds of seeds. Each row of the garden needs 1/6 pound of seeds. How many rows can be planted?

Equation: **3 ÷ 1/6 = 18** Answer: **18 rows**

4. There is 1/6 of a pan of cornbread left. 6 friends share it equally. What fraction of the whole pan does each friend get?

Equation: **1/6 ÷ 6 = 1/36** Answer: **1/36 of the pan**

5. A baker has 9 cups of flour. Each batch of rolls uses 1/7 cup of flour. How many batches can the baker make?

Equation: **9 ÷ 1/7 = 63** Answer: **63 batches**

6. There is 1/5 gallon of paint. 3 students share it equally. How much paint does each student get?

Equation: **1/5 ÷ 3 = 1/15** Answer: **1/15 gallon**

7. Leo has 1/5 pound of trail mix. He puts the same amount into each of 4 bags. How many pounds of trail mix go in each bag?

Equation: **1/5 ÷ 4 = 1/20** Answer: **1/20 pound**

8. A pitcher holds 2 liters of water. Each glass holds 1/6 liter. How many glasses can be filled?

Equation: **2 ÷ 1/6 = 12** Answer: **12 glasses**

Dividing Unit Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems that divide unit fractions and whole numbers | Version 4 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 baker has 5 cups of flour. Each batch of rolls uses 1/4 cup of flour. How many batches can the baker make?

Equation: **5 ÷ 1/4 = 20** Answer: **20 batches**

2. A gardener has 9 pounds of seeds. Each row of the garden needs 1/4 pound of seeds. How many rows can be planted?

Equation: **9 ÷ 1/4 = 36** Answer: **36 rows**

3. There is 1/5 gallon of paint. 5 students share it equally. How much paint does each student get?

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

4. Leo has 1/5 pound of trail mix. He puts the same amount into each of 2 bags. How many pounds of trail mix go in each bag?

Equation: **1/5 ÷ 2 = 1/10** Answer: **1/10 pound**

5. A pitcher holds 9 liters of water. Each glass holds 1/4 liter. How many glasses can be filled?

Equation: **9 ÷ 1/4 = 36** Answer: **36 glasses**

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

Equation: **1/2 ÷ 3 = 1/6** Answer: **1/6 of the pan**

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

Equation: **1/5 ÷ 6 = 1/30** Answer: **1/30 mile**

8. Ana has 5 feet of ribbon. She cuts it into pieces that are each 1/7 foot long. How many pieces does she get?

Equation: **5 ÷ 1/7 = 35** Answer: **35 pieces**

Dividing Unit Fractions Word Problems - ANSWER KEY

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: **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**

Dividing Unit Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems that divide unit fractions and whole numbers | Version 6 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 gardener has 3 pounds of seeds. Each row of the garden needs 1/3 pound of seeds. How many rows can be planted?

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

2. A baker has 6 cups of flour. Each batch of rolls uses 1/3 cup of flour. How many batches can the baker make?

Equation: **6 ÷ 1/3 = 18** Answer: **18 batches**

3. There is 1/3 gallon of paint. 5 students share it equally. How much paint does each student get?

Equation: **1/3 ÷ 5 = 1/15** Answer: **1/15 gallon**

4. Ana has 4 feet of ribbon. She cuts it into pieces that are each 1/8 foot long. How many pieces does she get?

Equation: **4 ÷ 1/8 = 32** Answer: **32 pieces**

5. A pitcher holds 4 liters of water. Each glass holds 1/2 liter. How many glasses can be filled?

Equation: **4 ÷ 1/2 = 8** Answer: **8 glasses**

6. A team walks 1/6 mile in 2 equal laps around the gym. How long is each lap?

Equation: **1/6 ÷ 2 = 1/12** Answer: **1/12 mile**

7. Leo has 1/4 pound of trail mix. He puts the same amount into each of 2 bags. How many pounds of trail mix go in each bag?

Equation: **1/4 ÷ 2 = 1/8** Answer: **1/8 pound**

8. There is 1/2 of a pan of cornbread left. 4 friends share it equally. What fraction of the whole pan does each friend get?

Equation: **1/2 ÷ 4 = 1/8** Answer: **1/8 of the pan**

Dividing Unit Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems that divide unit fractions and whole numbers | Version 7 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. There is 1/2 gallon of paint. 5 students share it equally. How much paint does each student get?

Equation: **1/2 ÷ 5 = 1/10** Answer: **1/10 gallon**

2. A team walks 1/2 mile in 4 equal laps around the gym. How long is each lap?

Equation: **1/2 ÷ 4 = 1/8** Answer: **1/8 mile**

3. Leo has 1/2 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: **1/2 ÷ 6 = 1/12** Answer: **1/12 pound**

4. Ana has 9 feet of ribbon. She cuts it into pieces that are each 1/8 foot long. How many pieces does she get?

Equation: **9 ÷ 1/8 = 72** Answer: **72 pieces**

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

Equation: **1/3 ÷ 2 = 1/6** Answer: **1/6 of the pan**

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

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

7. A gardener has 5 pounds of seeds. Each row of the garden needs 1/3 pound of seeds. How many rows can be planted?

Equation: **5 ÷ 1/3 = 15** Answer: **15 rows**

8. A pitcher holds 4 liters of water. Each glass holds 1/7 liter. How many glasses can be filled?

Equation: **4 ÷ 1/7 = 28** Answer: **28 glasses**

Dividing Unit Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems that divide unit fractions and whole numbers | Version 8 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 team walks 1/3 mile in 5 equal laps around the gym. How long is each lap?

Equation: **1/3 ÷ 5 = 1/15** Answer: **1/15 mile**

2. A gardener has 3 pounds of seeds. Each row of the garden needs 1/8 pound of seeds. How many rows can be planted?

Equation: **3 ÷ 1/8 = 24** Answer: **24 rows**

3. Leo has 1/3 pound of trail mix. He puts the same amount into each of 3 bags. How many pounds of trail mix go in each bag?

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

4. There is 1/4 gallon of paint. 2 students share it equally. How much paint does each student get?

Equation: **1/4 ÷ 2 = 1/8** Answer: **1/8 gallon**

5. A baker has 2 cups of flour. Each batch of rolls uses 1/8 cup of flour. How many batches can the baker make?

Equation: **2 ÷ 1/8 = 16** Answer: **16 batches**

6. Ana has 9 feet of ribbon. She cuts it into pieces that are each 1/3 foot long. How many pieces does she get?

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

7. There is 1/6 of a pan of cornbread left. 4 friends share it equally. What fraction of the whole pan does each friend get?

Equation: **1/6 ÷ 4 = 1/24** Answer: **1/24 of the pan**

8. A pitcher holds 9 liters of water. Each glass holds 1/8 liter. How many glasses can be filled?

Equation: **9 ÷ 1/8 = 72** Answer: **72 glasses**

Dividing Unit Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems that divide unit fractions and whole numbers | Version 9 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. Ana has 9 feet of ribbon. She cuts it into pieces that are each 1/5 foot long. How many pieces does she get?

Equation: **9 ÷ 1/5 = 45** Answer: **45 pieces**

2. Leo has 1/6 pound of trail mix. He puts the same amount into each of 2 bags. How many pounds of trail mix go in each bag?

Equation: **1/6 ÷ 2 = 1/12** Answer: **1/12 pound**

3. A gardener has 9 pounds of seeds. Each row of the garden needs 1/8 pound of seeds. How many rows can be planted?

Equation: **9 ÷ 1/8 = 72** Answer: **72 rows**

4. There is 1/5 gallon of paint. 6 students share it equally. How much paint does each student get?

Equation: **1/5 ÷ 6 = 1/30** Answer: **1/30 gallon**

5. A team walks 1/3 mile in 4 equal laps around the gym. How long is each lap?

Equation: **1/3 ÷ 4 = 1/12** Answer: **1/12 mile**

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

Equation: **1/5 ÷ 3 = 1/15** Answer: **1/15 of the pan**

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

Equation: **6 ÷ 1/8 = 48** Answer: **48 batches**

8. A pitcher holds 4 liters of water. Each glass holds 1/4 liter. How many glasses can be filled?

Equation: **4 ÷ 1/4 = 16** Answer: **16 glasses**

Dividing Unit Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems that divide unit fractions and whole numbers | Version 10 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. There is 1/2 of a pan of cornbread left. 5 friends share it equally. What fraction of the whole pan does each friend get?

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

2. A team walks 1/3 mile in 6 equal laps around the gym. How long is each lap?

Equation: **1/3 ÷ 6 = 1/18** Answer: **1/18 mile**

3. There is 1/4 gallon of paint. 6 students share it equally. How much paint does each student get?

Equation: **1/4 ÷ 6 = 1/24** Answer: **1/24 gallon**

4. A pitcher holds 3 liters of water. Each glass holds 1/4 liter. How many glasses can be filled?

Equation: **3 ÷ 1/4 = 12** Answer: **12 glasses**

5. Leo has 1/3 pound of trail mix. He puts the same amount into each of 4 bags. How many pounds of trail mix go in each bag?

Equation: **1/3 ÷ 4 = 1/12** Answer: **1/12 pound**

6. Ana has 6 feet of ribbon. She cuts it into pieces that are each 1/7 foot long. How many pieces does she get?

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

7. A baker has 3 cups of flour. Each batch of rolls uses 1/6 cup of flour. How many batches can the baker make?

Equation: **3 ÷ 1/6 = 18** Answer: **18 batches**

8. A gardener has 4 pounds of seeds. Each row of the garden needs 1/2 pound of seeds. How many rows can be planted?

Equation: **4 ÷ 1/2 = 8** Answer: **8 rows**