Multiplying Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems by multiplying a fraction by a whole number or by another fraction | Version 1 of 10

Read each problem. Write a multiplication equation and solve. Write fraction answers in simplest form and include the unit.

1. There are 24 students in a class. 3/4 of them walk to school. How many students walk to school?

Equation: **3/4 × 24 = 18** Answer: **18 students**

2. Jude has 30 cards and gives 5/6 of them to a friend. How many cards does Jude give away?

Equation: **5/6 × 30 = 25** Answer: **25 cards**

3. A garden covers 2/5 of an acre. Beans are planted in 5/6 of the garden. What fraction of an acre has beans?

Equation: **5/6 × 2/5 = 1/3** Answer: **1/3 of an acre**

4. Leo walked 2/5 of a mile. Mia walked 1/5 as far as Leo. What fraction of a mile did Mia walk?

Equation: **1/5 × 2/5 = 2/25** Answer: **2/25 of a mile**

5. A jug holds 1/3 of a gallon of juice. Ivy pours 2/3 of the juice into cups. How much of a gallon does Ivy pour?

Equation: **2/3 × 1/3 = 2/9** Answer: **2/9 of a gallon**

6. Nora has 1/2 of a pan of corn bread left. Nora eats 1/2 of what is left. What fraction of the whole pan does Nora eat?

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

7. A trail is 12 miles long. Jude has hiked 2/3 of the trail. How many miles has Jude hiked?

Equation: **2/3 × 12 = 8** Answer: **8 miles**

8. A ribbon is 48 feet long. Rosa uses 7/8 of it for a project. How many feet of ribbon does Rosa use?

Equation: **7/8 × 48 = 42** Answer: **42 feet**

Multiplying Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems by multiplying a fraction by a whole number or by another fraction | Version 2 of 10

Read each problem. Write a multiplication equation and solve. Write fraction answers in simplest form and include the unit.

1. Kai has 16 cards and gives 3/8 of them to a friend. How many cards does Kai give away?

Equation: **3/8 × 16 = 6** Answer: **6 cards**

2. A trail is 24 miles long. Omar has hiked 3/4 of the trail. How many miles has Omar hiked?

Equation: **3/4 × 24 = 18** Answer: **18 miles**

3. A ribbon is 8 feet long. Max uses 3/4 of it for a project. How many feet of ribbon does Max use?

Equation: **3/4 × 8 = 6** Answer: **6 feet**

4. Jude walked 1/2 of a mile. Rosa walked 1/3 as far as Jude. What fraction of a mile did Rosa walk?

Equation: **1/3 × 1/2 = 1/6** Answer: **1/6 of a mile**

5. A jug holds 1/6 of a gallon of juice. Tess pours 1/2 of the juice into cups. How much of a gallon does Tess pour?

Equation: **1/2 × 1/6 = 1/12** Answer: **1/12 of a gallon**

6. There are 24 students in a class. 3/4 of them walk to school. How many students walk to school?

Equation: **3/4 × 24 = 18** Answer: **18 students**

7. Nora has 5/6 of a pan of corn bread left. Nora eats 3/4 of what is left. What fraction of the whole pan does Nora eat?

Equation: **3/4 × 5/6 = 5/8** Answer: **5/8 of the pan**

8. A garden covers 1/2 of an acre. Beans are planted in 5/6 of the garden. What fraction of an acre has beans?

Equation: **5/6 × 1/2 = 5/12** Answer: **5/12 of an acre**

Multiplying Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems by multiplying a fraction by a whole number or by another fraction | Version 3 of 10

Read each problem. Write a multiplication equation and solve. Write fraction answers in simplest form and include the unit.

1. Sam has 10 cards and gives 4/5 of them to a friend. How many cards does Sam give away?

Equation: **4/5 × 10 = 8** Answer: **8 cards**

2. A ribbon is 8 feet long. Tess uses 3/4 of it for a project. How many feet of ribbon does Tess use?

Equation: **3/4 × 8 = 6** Answer: **6 feet**

3. Tess walked 3/5 of a mile. Omar walked 1/3 as far as Tess. What fraction of a mile did Omar walk?

Equation: **1/3 × 3/5 = 1/5** Answer: **1/5 of a mile**

4. Mia has 5/6 of a pan of corn bread left. Mia eats 1/2 of what is left. What fraction of the whole pan does Mia eat?

Equation: **1/2 × 5/6 = 5/12** Answer: **5/12 of the pan**

5. There are 36 students in a class. 5/6 of them walk to school. How many students walk to school?

Equation: **5/6 × 36 = 30** Answer: **30 students**

6. A garden covers 1/3 of an acre. Beans are planted in 1/6 of the garden. What fraction of an acre has beans?

Equation: **1/6 × 1/3 = 1/18** Answer: **1/18 of an acre**

7. A trail is 18 miles long. Kai has hiked 5/6 of the trail. How many miles has Kai hiked?

Equation: **5/6 × 18 = 15** Answer: **15 miles**

8. A jug holds 1/6 of a gallon of juice. Ava pours 5/6 of the juice into cups. How much of a gallon does Ava pour?

Equation: **5/6 × 1/6 = 5/36** Answer: **5/36 of a gallon**

Multiplying Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems by multiplying a fraction by a whole number or by another fraction | Version 4 of 10

Read each problem. Write a multiplication equation and solve. Write fraction answers in simplest form and include the unit.

1. Ben walked 2/3 of a mile. Ivy walked 2/5 as far as Ben. What fraction of a mile did Ivy walk?

Equation: **2/5 × 2/3 = 4/15** Answer: **4/15 of a mile**

2. A ribbon is 15 feet long. Omar uses 2/3 of it for a project. How many feet of ribbon does Omar use?

Equation: **2/3 × 15 = 10** Answer: **10 feet**

3. Kai has 32 cards and gives 3/8 of them to a friend. How many cards does Kai give away?

Equation: **3/8 × 32 = 12** Answer: **12 cards**

4. A jug holds 1/4 of a gallon of juice. Mia pours 1/6 of the juice into cups. How much of a gallon does Mia pour?

Equation: **1/6 × 1/4 = 1/24** Answer: **1/24 of a gallon**

5. There are 36 students in a class. 5/6 of them walk to school. How many students walk to school?

Equation: **5/6 × 36 = 30** Answer: **30 students**

6. Tess has 1/2 of a pan of corn bread left. Tess eats 2/3 of what is left. What fraction of the whole pan does Tess eat?

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

7. A trail is 15 miles long. Max has hiked 2/3 of the trail. How many miles has Max hiked?

Equation: **2/3 × 15 = 10** Answer: **10 miles**

8. A garden covers 1/2 of an acre. Beans are planted in 2/3 of the garden. What fraction of an acre has beans?

Equation: **2/3 × 1/2 = 1/3** Answer: **1/3 of an acre**

Multiplying Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems by multiplying a fraction by a whole number or by another fraction | Version 5 of 10

Read each problem. Write a multiplication equation and solve. Write fraction answers in simplest form and include the unit.

1. A ribbon is 15 feet long. Rosa uses 2/3 of it for a project. How many feet of ribbon does Rosa use?

Equation: **2/3 × 15 = 10** Answer: **10 feet**

2. A garden covers 1/5 of an acre. Beans are planted in 3/5 of the garden. What fraction of an acre has beans?

Equation: **3/5 × 1/5 = 3/25** Answer: **3/25 of an acre**

3. Ben has 1/3 of a pan of corn bread left. Ben eats 1/6 of what is left. What fraction of the whole pan does Ben eat?

Equation: **1/6 × 1/3 = 1/18** Answer: **1/18 of the pan**

4. A trail is 32 miles long. Eli has hiked 5/8 of the trail. How many miles has Eli hiked?

Equation: **5/8 × 32 = 20** Answer: **20 miles**

5. Leo has 12 cards and gives 5/6 of them to a friend. How many cards does Leo give away?

Equation: **5/6 × 12 = 10** Answer: **10 cards**

6. There are 16 students in a class. 5/8 of them walk to school. How many students walk to school?

Equation: **5/8 × 16 = 10** Answer: **10 students**

7. A jug holds 1/4 of a gallon of juice. Omar pours 1/2 of the juice into cups. How much of a gallon does Omar pour?

Equation: **1/2 × 1/4 = 1/8** Answer: **1/8 of a gallon**

8. Ava walked 1/2 of a mile. Zoe walked 2/5 as far as Ava. What fraction of a mile did Zoe walk?

Equation: **2/5 × 1/2 = 1/5** Answer: **1/5 of a mile**

Multiplying Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems by multiplying a fraction by a whole number or by another fraction | Version 6 of 10

Read each problem. Write a multiplication equation and solve. Write fraction answers in simplest form and include the unit.

1. A jug holds 5/6 of a gallon of juice. Tess pours 1/2 of the juice into cups. How much of a gallon does Tess pour?

Equation: **1/2 × 5/6 = 5/12** Answer: **5/12 of a gallon**

2. A garden covers 3/4 of an acre. Beans are planted in 3/4 of the garden. What fraction of an acre has beans?

Equation: **3/4 × 3/4 = 9/16** Answer: **9/16 of an acre**

3. Nora walked 1/2 of a mile. Jude walked 3/5 as far as Nora. What fraction of a mile did Jude walk?

Equation: **3/5 × 1/2 = 3/10** Answer: **3/10 of a mile**

4. A trail is 48 miles long. Eli has hiked 3/8 of the trail. How many miles has Eli hiked?

Equation: **3/8 × 48 = 18** Answer: **18 miles**

5. There are 12 students in a class. 3/4 of them walk to school. How many students walk to school?

Equation: **3/4 × 12 = 9** Answer: **9 students**

6. Nora has 10 cards and gives 4/5 of them to a friend. How many cards does Nora give away?

Equation: **4/5 × 10 = 8** Answer: **8 cards**

7. A ribbon is 20 feet long. Mia uses 2/5 of it for a project. How many feet of ribbon does Mia use?

Equation: **2/5 × 20 = 8** Answer: **8 feet**

8. Lily has 1/6 of a pan of corn bread left. Lily eats 2/3 of what is left. What fraction of the whole pan does Lily eat?

Equation: **2/3 × 1/6 = 1/9** Answer: **1/9 of the pan**

Multiplying Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems by multiplying a fraction by a whole number or by another fraction | Version 7 of 10

Read each problem. Write a multiplication equation and solve. Write fraction answers in simplest form and include the unit.

1. A trail is 30 miles long. Nora has hiked 5/6 of the trail. How many miles has Nora hiked?

Equation: **5/6 × 30 = 25** Answer: **25 miles**

2. A jug holds 1/5 of a gallon of juice. Nora pours 5/6 of the juice into cups. How much of a gallon does Nora pour?

Equation: **5/6 × 1/5 = 1/6** Answer: **1/6 of a gallon**

3. There are 30 students in a class. 4/5 of them walk to school. How many students walk to school?

Equation: **4/5 × 30 = 24** Answer: **24 students**

4. Nora has 1/4 of a pan of corn bread left. Nora eats 1/3 of what is left. What fraction of the whole pan does Nora eat?

Equation: **1/3 × 1/4 = 1/12** Answer: **1/12 of the pan**

5. A ribbon is 16 feet long. Sam uses 3/8 of it for a project. How many feet of ribbon does Sam use?

Equation: **3/8 × 16 = 6** Answer: **6 feet**

6. Max walked 3/4 of a mile. Eli walked 1/2 as far as Max. What fraction of a mile did Eli walk?

Equation: **1/2 × 3/4 = 3/8** Answer: **3/8 of a mile**

7. A garden covers 1/2 of an acre. Beans are planted in 1/6 of the garden. What fraction of an acre has beans?

Equation: **1/6 × 1/2 = 1/12** Answer: **1/12 of an acre**

8. Tess has 12 cards and gives 2/3 of them to a friend. How many cards does Tess give away?

Equation: **2/3 × 12 = 8** Answer: **8 cards**

Multiplying Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems by multiplying a fraction by a whole number or by another fraction | Version 8 of 10

Read each problem. Write a multiplication equation and solve. Write fraction answers in simplest form and include the unit.

1. Max has 1/2 of a pan of corn bread left. Max eats 1/4 of what is left. What fraction of the whole pan does Max eat?

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

2. A jug holds 1/6 of a gallon of juice. Ivy pours 1/6 of the juice into cups. How much of a gallon does Ivy pour?

Equation: **1/6 × 1/6 = 1/36** Answer: **1/36 of a gallon**

3. Mia has 40 cards and gives 3/8 of them to a friend. How many cards does Mia give away?

Equation: **3/8 × 40 = 15** Answer: **15 cards**

4. There are 18 students in a class. 5/6 of them walk to school. How many students walk to school?

Equation: **5/6 × 18 = 15** Answer: **15 students**

5. A ribbon is 15 feet long. Ava uses 2/5 of it for a project. How many feet of ribbon does Ava use?

Equation: **2/5 × 15 = 6** Answer: **6 feet**

6. A garden covers 2/3 of an acre. Beans are planted in 1/3 of the garden. What fraction of an acre has beans?

Equation: **1/3 × 2/3 = 2/9** Answer: **2/9 of an acre**

7. Lily walked 5/6 of a mile. Max walked 1/2 as far as Lily. What fraction of a mile did Max walk?

Equation: **1/2 × 5/6 = 5/12** Answer: **5/12 of a mile**

8. A trail is 16 miles long. Ava has hiked 3/4 of the trail. How many miles has Ava hiked?

Equation: **3/4 × 16 = 12** Answer: **12 miles**

Multiplying Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems by multiplying a fraction by a whole number or by another fraction | Version 9 of 10

Read each problem. Write a multiplication equation and solve. Write fraction answers in simplest form and include the unit.

1. Rosa walked 2/3 of a mile. Max walked 1/2 as far as Rosa. What fraction of a mile did Max walk?

Equation: **1/2 × 2/3 = 1/3** Answer: **1/3 of a mile**

2. Tess has 15 cards and gives 3/5 of them to a friend. How many cards does Tess give away?

Equation: **3/5 × 15 = 9** Answer: **9 cards**

3. A jug holds 4/5 of a gallon of juice. Ivy pours 1/6 of the juice into cups. How much of a gallon does Ivy pour?

Equation: **1/6 × 4/5 = 2/15** Answer: **2/15 of a gallon**

4. A garden covers 3/4 of an acre. Beans are planted in 1/2 of the garden. What fraction of an acre has beans?

Equation: **1/2 × 3/4 = 3/8** Answer: **3/8 of an acre**

5. There are 30 students in a class. 5/6 of them walk to school. How many students walk to school?

Equation: **5/6 × 30 = 25** Answer: **25 students**

6. A ribbon is 20 feet long. Ben uses 3/5 of it for a project. How many feet of ribbon does Ben use?

Equation: **3/5 × 20 = 12** Answer: **12 feet**

7. Lily has 1/2 of a pan of corn bread left. Lily eats 1/2 of what is left. What fraction of the whole pan does Lily eat?

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

8. A trail is 12 miles long. Nora has hiked 2/3 of the trail. How many miles has Nora hiked?

Equation: **2/3 × 12 = 8** Answer: **8 miles**

Multiplying Fractions Word Problems - ANSWER KEY

Grade 5 | Solving word problems by multiplying a fraction by a whole number or by another fraction | Version 10 of 10

Read each problem. Write a multiplication equation and solve. Write fraction answers in simplest form and include the unit.

1. Zoe has 15 cards and gives 3/5 of them to a friend. How many cards does Zoe give away?

Equation: **3/5 × 15 = 9** Answer: **9 cards**

2. Omar has 3/4 of a pan of corn bread left. Omar eats 2/3 of what is left. What fraction of the whole pan does Omar eat?

Equation: **2/3 × 3/4 = 1/2** Answer: **1/2 of the pan**

3. A ribbon is 32 feet long. Sam uses 3/8 of it for a project. How many feet of ribbon does Sam use?

Equation: **3/8 × 32 = 12** Answer: **12 feet**

4. A jug holds 1/2 of a gallon of juice. Sam pours 3/4 of the juice into cups. How much of a gallon does Sam pour?

Equation: **3/4 × 1/2 = 3/8** Answer: **3/8 of a gallon**

5. A garden covers 1/2 of an acre. Beans are planted in 1/2 of the garden. What fraction of an acre has beans?

Equation: **1/2 × 1/2 = 1/4** Answer: **1/4 of an acre**

6. Tess walked 2/3 of a mile. Ben walked 1/3 as far as Tess. What fraction of a mile did Ben walk?

Equation: **1/3 × 2/3 = 2/9** Answer: **2/9 of a mile**

7. A trail is 12 miles long. Mia has hiked 3/4 of the trail. How many miles has Mia hiked?

Equation: **3/4 × 12 = 9** Answer: **9 miles**

8. There are 12 students in a class. 2/3 of them walk to school. How many students walk to school?

Equation: **2/3 × 12 = 8** Answer: **8 students**