18. How to add, subtract, multiply and divide fractions

Scenario Questions: Simplify Answers

1. Jane has 1/4 of a pie, and Mark has 3/8 of a pie. How much pie do they have in total?

2. A recipe calls for 1/3 cup of milk and 1/2 cup of flour. How much of a cup do these ingredients make in total?

3. A water tank is filled with 2/5 of its capacity on Monday and is topped up with another 1/6 of its capacity on Tuesday. What fraction of the tank's capacity is filled in total?

4. Two friends shared a pizza. If each person ate 1/8 of the pizza, how much pizza did they eat altogether?

5. A farmer harvested 3/7 of his orchard on Monday and another 1/3 of his orchard on Tuesday. What fraction of his total orchard did he harvest over both days?

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Scenario Questions: Simplify Answers

6. Lisa has 3/4 of a cake, and Pedro has 1/2 of a cake. How much more cake does Lisa have than Pedro?

7. A recipe calls for 2/3 cup of sugar, but you only have 1/4 cup. How much more sugar do you need?

8. A water tank is filled with 5/6 of its capacity on Monday. On Tuesday it's capacity is at 1/3. What fraction of the tank's capacity was used?

9. Two friends shared a pie. If each person ate 1/6 of the pie, how much pie is left?

10. A farmer harvested 7/8 of his cornfield. What fraction of his field is left unharvested?

Scenario Questions: Simplify Answers

11. If you have 1/2 of a pizza and you double it, how much pizza will you have?

12. A recipe calls for 1/3 cup of sugar, but you want to make half the recipe. How much sugar do you need?

13. A rectangle has an area equal to length x width. If a rectangle has a length of 3/4 meters and a width of 2/5 meters. What is the area of the rectangle?

14. If 3/4 of a company are male, and 1/2 of the men are under 40. What fraction are both male and under 40?

15. A farmer planted 2/3 of his field with corn and 1/4 of the remaining area with wheat. What fraction of the total field is planted with wheat?

Scenario Questions: Simplify Answers

16. If you have 3/4 of a cake and you want to divide it equally among 2 people, how much cake does each person get?

17. A recipe calls for 1/4 cup of flour. You have 1/2 cup of flour. How many times can you make the recipe?

18. To find the length of a rectangle you divide the area by the width. If a rectangle has an area of 3/4 square meters and a width of 1/2 metre. What is the length of the rectangle?

19. A tailor wants to cut 3/4 of a meter of ribbon into 1/8 of a meter strips. How many strips can they make?

20. A carpenter has a strip of wood measuring 2 and 3/4 meters. How many lengths of ¼ of a meter can he make?

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Scenario Questions: Answers

1. Jane has 1/4 of a pie, and Mark has 3/8 of a pie. How much pie do they have in total?

1. 5/8

2. A recipe calls for 1/3 cup of milk and 1/2 cup of flour. How much of a cup do these ingredients make in total?

2. 5/6

3. A water tank is filled with 2/5 of its capacity on Monday and is topped up with another 1/6 of its capacity on Tuesday. What fraction of the tank's capacity is filled in total?

3. 17/30

4. Two friends shared a pizza. If each person ate 1/8 of the pizza, how much pizza did they eat altogether?

4. 1/4

5. A farmer harvested 3/7 of his orchard on Monday and another 1/3 of his orchard on Tuesday. What fraction of his total orchard did he harvest over both days?

5. 16/21

6. Lisa has 3/4 of a cake, and Pedro has 1/2 of a cake. How much more cake does Lisa have than Pedro?

6. 1/4

7. A recipe calls for 2/3 cup of sugar, but you only have 1/4 cup. How much more sugar do you need?

7. 5/12

8. A water tank is filled with 5/6 of its capacity on Monday. On Tuesday it's capacity is at 1/3. What fraction of the tank's capacity was used?

8. 1/2

9. Two friends shared a pie. If each person ate 1/6 of the pie, how much pie is left?

9. 2/3

10. A farmer harvested 7/8 of his cornfield. What fraction of his field is left unharvested?

10. 1/8

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Scenario Questions: Answers

11. If you have 1/2 of a pizza and you double it, how much pizza will you have?

11. 1

12. A recipe calls for 1/3 cup of sugar, but you want to make half the recipe. How much sugar do you need?

12. 1/6

13. A rectangle has an area equal to length x width. If a rectangle has a length of 3/4 meters and a width of 2/5 meters. What is the area of the rectangle?

13. 3/10 of a square meter

14. If 3/4 of a company are male, and 1/2 of the men are under 40. What fraction are both male and under 40?

14. 3/8

15. A farmer planted 2/3 of his field with corn and 1/4 of the remaining area with wheat. What fraction of the total field is planted with wheat?

15. 1/12

16. If you have 3/4 of a cake and you want to divide it equally among 2 people, how much cake does each person get?

16. 3/8

17. A recipe calls for 1/4 cup of flour. You have 1/2 cup of flour. How many times can you make the recipe?

17. 2

18. To find the length of a rectangle you divide the area by the width. If a rectangle has an area of 3/4 square meters and a width of 1/2 meter. What is the length of the rectangle?

18. 3/2

19. A tailor wants to cut 3/4 of a meter on ribbon into 1/8 of a meter strips. How many strips can they make?

19. 6

20. A carpenter has a strip of wood measuring 2 and 3/4 of a meter. How many lengths of ¼ of a meter can he make?

20. 11

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