

Multiplying Fractions & Mixed Numbers: Real-World Problems

Fractions • Grade 5 • Word Problems • Set C • CCSS 5.NF.6

Name: _____

Date: _____

Read each word problem carefully, multiply the fractions or mixed numbers, and write your answer with its unit.

1. A recipe calls for $\frac{2}{3}$ cup of sugar. If Leo wants to make $\frac{3}{4}$ of the recipe, how much sugar does Leo need?

2. A rectangular room is $4\frac{1}{3}$ feet wide and $3\frac{1}{2}$ feet long. What is the area of the room?

3. A box of cereal weighs $1\frac{1}{3}$ pounds. A school orders 8 boxes. What is the total weight of the cereal?

4. Each student needs $\frac{3}{4}$ of a sheet of construction paper for an art project. If there are 16 students, how many sheets are needed in all?

5. A baker uses $\frac{1}{4}$ cup of butter for one batch of cookies. The baker wants to make $2\frac{1}{4}$ batches. How many cups of butter are needed?

6. A piece of ribbon is $4\frac{1}{4}$ feet long. Quinn cuts off $\frac{2}{3}$ of it to decorate a gift. How long is the piece Quinn cuts off?

7. A pitcher holds $2\frac{3}{4}$ gallons of lemonade. A camp counselor pours out $\frac{1}{2}$ of the pitcher. How many gallons were poured out?

8. A fish tank holds $5\frac{2}{3}$ gallons of water. It is currently $\frac{3}{4}$ full. How many gallons of water are in the tank?

9. Kira walks $2\frac{1}{2}$ miles to school each day. How far does Kira walk in 2 days?

10. A runner jogs $\frac{5}{8}$ of a mile each morning. How many miles does the runner jog in 3 days?

11. A garden plot is $\frac{2}{3}$ yard long and $\frac{1}{2}$ yard wide. What is the area of the garden plot?

12. A recipe calls for $\frac{1}{4}$ cup of sugar. If Kira wants to make $\frac{1}{2}$ of the recipe, how much sugar does Kira need?

13. A rectangular room is $4\frac{1}{4}$ feet wide and $3\frac{1}{2}$ feet long. What is the area of the room?

14. A box of cereal weighs $3\frac{1}{3}$ pounds. A school orders 12 boxes. What is the total weight of the cereal?

15. Each student needs $\frac{1}{2}$ of a sheet of construction paper for an art project. If there are 10 students, how many sheets are needed in all?

16. A baker uses $\frac{3}{4}$ cup of butter for one batch of cookies. The baker wants to make $1\frac{1}{2}$ batches. How many cups of butter are needed?

17. A piece of ribbon is $5\frac{1}{2}$ feet long. Quinn cuts off $\frac{1}{5}$ of it to decorate a gift. How long is the piece Quinn cuts off?

18. A pitcher holds $3\frac{3}{4}$ gallons of lemonade. A camp counselor pours out $\frac{1}{2}$ of the pitcher. How many gallons were poured out?

19. A fish tank holds $3\frac{1}{2}$ gallons of water. It is currently $\frac{1}{2}$ full. How many gallons of water are in the tank?

20. Kira walks $2\frac{1}{2}$ miles to school each day. How far does Kira walk in 3 days?

21. A runner jogs $\frac{3}{5}$ of a mile each morning. How many miles does the runner jog in 3 days?

22. A garden plot is $\frac{2}{5}$ yard long and $\frac{1}{2}$ yard wide. What is the area of the garden plot?

Answer Key

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|-------------------------------|----------------------------------|-------------------------------|
| 1. $\frac{1}{2}$ cup | 9. 5 miles | 17. $\frac{11}{10}$ feet |
| 2. $9\frac{1}{6}$ square feet | 10. $\frac{15}{8}$ miles | 18. $\frac{15}{8}$ gallons |
| 3. $32\frac{2}{3}$ pounds | 11. $\frac{1}{3}$ square yard | 19. $\frac{7}{4}$ gallons |
| 4. 12 sheets | 12. $\frac{1}{8}$ cup | 20. $\frac{15}{2}$ miles |
| 5. $\frac{9}{16}$ cup | 13. $119\frac{1}{8}$ square feet | 21. $\frac{9}{5}$ miles |
| 6. $17\frac{1}{6}$ feet | 14. 40 pounds | 22. $\frac{1}{5}$ square yard |
| 7. $11\frac{1}{8}$ gallons | 15. 5 sheets | |
| 8. $17\frac{3}{4}$ gallons | 16. $\frac{9}{8}$ cups | |