



**THIRD SPACE  
LEARNING**

# Fraction Word Problems Worksheet

Number and Quantity

**Grades 6 to 8**

## Questions

Name: .....

Date: .....

- 1 Aisha has  $\frac{3}{4}$  of a yard of ribbon. She wants to cut it into pieces that are  $\frac{1}{8}$  of a yard each. How many pieces can she make?

Answer

- 2 Raj has  $\frac{2}{3}$  of a liter of juice. He pours it equally into glasses that hold  $\frac{1}{6}$  of a liter each. How many glasses can he fill?

Answer

- 3 Lina needs to run  $\frac{5}{9}$  of a mile to reach her goal. If she runs  $\frac{1}{3}$  of a mile each day, how many days will it take her to reach her goal?

Answer

- 4 Omar has  $\frac{7}{8}$  of a pound of nuts. He wants to divide them into bags that each contain  $\frac{1}{4}$  of a pound. How many bags can he make?

Answer

- 5 Sofia has  $\frac{5}{6}$  of a cake. She wants to share it equally among 2 friends. What fraction of the cake will each friend receive?

Answer

## Fraction Word Problems Worksheet | Grades 6 to 8

- 6 Mia has  $\frac{3}{4}$  of a chocolate bar. If she wants to split this amount equally among her 3 friends to share, how much of the chocolate bar will each friend receive?

Answer

- 7 Esme needs to cover  $\frac{3}{4}$  of a wall with wallpaper. If each roll covers  $\frac{1}{6}$  of the wall, how many rolls does she need?

Answer

- 8 Jamal has  $\frac{9}{10}$  of a yard of fabric. He wants to make scarves that each require  $\frac{3}{20}$  of a yard. How many scarves can he make?

Answer

- 9 A group of 5 students are sharing  $\frac{2}{3}$  of a pound of trail mix equally. How much trail mix does each student get?

Answer

- 10 Kevin has  $\frac{5}{7}$  of a tank of gas. He uses  $\frac{1}{14}$  of the tank each day. How many days can he drive before the tank is empty?

Answer

## Fraction Word Problems Worksheet | Grades 6 to 8

- 11 Maya has  $\frac{2}{5}$  of a cup of sugar. She wants to make packets that each contain  $\frac{1}{10}$  of a cup. How many packets can she make?

Answer

- 12 Daniel makes a goal to run a total of  $\frac{3}{4}$  of a kilometer. If he runs  $\frac{1}{8}$  of a kilometer each day, how many days will it take him to complete his goal?

Answer

- 13 Fatima has  $\frac{7}{9}$  of a yard of ribbon. She cuts it into pieces that are  $\frac{1}{3}$  of a yard each. How many pieces can she make?

Answer

- 14 Isaac has  $\frac{8}{11}$  of a liter of juice. He pours it equally into containers that hold  $\frac{2}{11}$  of a liter each. How many containers can he fill?

Answer

- 15 Chloe has  $\frac{5}{6}$  of a pie. She wants to share it equally among 5 friends. What fraction of the pie will each friend receive?

Answer

## Fraction Word Problems Worksheet | Grades 6 to 8

- 16 Ravi has  $\frac{4}{7}$  of a tank of water. He uses  $\frac{2}{21}$  of the tank each day for watering plants. How many days can he water the plants before the tank is empty?

Answer

- 17 Lila has  $\frac{10}{12}$  of a yard of fabric. She wants to make pieces that are  $\frac{5}{12}$  of a yard each. How many pieces can she make?

Answer

- 18 Ben has  $\frac{3}{5}$  of a pound of flour. He needs  $\frac{1}{15}$  of a pound for each batch of cookies. How many batches can he make?

Answer

- 19 Ava has  $\frac{6}{8}$  of a cake. She wants to divide it equally among 3 friends. What fraction of the cake will each friend receive?

Answer

- 20 Ethan has  $\frac{9}{10}$  of a yard of rope. He cuts it into pieces that are  $\frac{3}{10}$  of a yard each. How many pieces can he make?

Answer

## Answers

| Question number | Question  | Answers   | Standard |
|-----------------|---|---|----------|
| 1               | Aisha has $\frac{3}{4}$ of a yard of ribbon. She wants to cut it into pieces that are $\frac{1}{8}$ of a yard each. How many pieces can she make?                         | $\frac{3}{4} \div \frac{1}{8} = \frac{3}{4} \times \frac{8}{1} = \frac{24}{4}$<br>= 6 pieces                            | 6.NS.A.1 |
| 2               | Raj has $\frac{2}{3}$ of a liter of juice. He pours it equally into glasses that hold $\frac{1}{6}$ of a liter each. How many glasses can he fill?                        | $\frac{2}{3} \div \frac{1}{6} = \frac{2}{3} \times \frac{6}{1} = \frac{12}{3}$<br>= 4 glasses                           | 6.NS.A.1 |
| 3               | Lina needs to run $\frac{5}{9}$ of a mile to reach her goal. If she runs $\frac{1}{3}$ of a mile each day, how many days will it take her to reach her goal?              | $\frac{5}{9} \div \frac{1}{3} = \frac{5}{9} \times \frac{3}{1} = \frac{15}{9}$<br>= $1\frac{6}{9} = 1\frac{2}{3}$ days  | 6.NS.A.1 |
| 4               | Omar has $\frac{7}{8}$ of a pound of nuts. He wants to divide them into bags that each contain $\frac{1}{4}$ of a pound. How many bags can he make?                       | $\frac{7}{8} \div \frac{1}{4} = \frac{7}{8} \times \frac{4}{1} = \frac{28}{8}$<br>= $3\frac{4}{8} = 3\frac{1}{2}$ bags  | 6.NS.A.1 |
| 5               | Sofia has $\frac{5}{6}$ of a cake. She wants to share it equally among 2 friends. What fraction of the cake will each friend receive?                                     | $\frac{5}{6} \div 2 = \frac{5}{6} \times \frac{1}{2} = \frac{5}{12}$<br>each  | 6.NS.A.1 |
| 6               | Mia has $\frac{3}{4}$ of a chocolate bar. If she wants to split this amount equally among her 3 friends to share, how much of the chocolate bar will each friend receive? | $\frac{3}{4} \div 3 = \frac{3}{4} \times \frac{1}{3} = \frac{3}{12} = \frac{1}{4}$<br>of a chocolate bar                | 6.NS.A.1 |
| 7               | Esme needs to cover $\frac{3}{4}$ of a wall with wallpaper. If each roll covers $\frac{1}{6}$ of the wall, how many rolls does she need?                                  | $\frac{3}{4} \div \frac{1}{6} = \frac{3}{4} \times \frac{6}{1} = \frac{18}{4} =$<br>$4\frac{2}{4} = 4\frac{1}{2}$ rolls | 6.NS.A.1 |

## Fraction Word Problems Worksheet | Grades 6 to 8 | Answers

| Question number | Question   | Answers   | Standard |
|-----------------|--|---|----------|
| 8               | Jamal has $\frac{9}{10}$ of a yard of fabric. He wants to make scarves that each require $\frac{3}{20}$ of a yard. How many scarves can he make?                           | $\frac{9}{10} \div \frac{3}{20} = \frac{9}{10} \times \frac{20}{3} = \frac{180}{30}$<br>= 6 scarves   | 6.NS.A.1 |
| 9               | A group of 5 students are sharing $\frac{2}{3}$ of a pound of trail mix equally. How much trail mix does each student get?   | $\frac{2}{3} \div 5 = \frac{2}{3} \times \frac{1}{5} = \frac{2}{15}$<br>of a pound  | 6.NS.A.1 |
| 10              | Kevin has $\frac{5}{7}$ of a tank of gas. He uses $\frac{1}{14}$ of the tank each day. How many days can he drive before the tank is empty?                                | $\frac{5}{7} \div \frac{1}{14} = \frac{5}{7} \times \frac{14}{1} = \frac{70}{7}$<br>=10 days  | 6.NS.A.1 |
| 11              | Maya has $\frac{2}{5}$ of a cup of sugar. She wants to make packets that each contain $\frac{1}{10}$ of a cup. How many packets can she make?                              | $\frac{2}{5} \div \frac{1}{10} = \frac{2}{5} \times \frac{10}{1} = \frac{20}{5}$<br>= 4 packets   | 6.NS.A.1 |
| 12              | Daniel makes a goal to run a total of $\frac{3}{4}$ of a kilometer. If he runs $\frac{1}{8}$ of a kilometer each day, how many days will it take him to complete his goal? | $\frac{3}{4} \div \frac{1}{8} = \frac{3}{4} \times \frac{8}{1} = \frac{24}{4}$<br>= 6 days  | 6.NS.A.1 |
| 13              | Fatima has $\frac{7}{9}$ of a yard of ribbon. She cuts it into pieces that are $\frac{1}{3}$ of a yard each. How many pieces can she make?                                 | $\frac{7}{9} \div \frac{1}{3} = \frac{7}{9} \times \frac{3}{1} = \frac{21}{9}$<br>= $2\frac{3}{9} = 2$ pieces with $\frac{1}{3}$ of a piece left over | 6.NS.A.1 |
| 14              | Isaac has $\frac{8}{11}$ of a liter of juice. He pours it equally into containers that hold $\frac{2}{11}$ of a liter each. How many containers can he fill?               | $\frac{8}{11} \div \frac{2}{11} = \frac{8}{11} \times \frac{11}{2} = \frac{88}{22}$<br>= 4 containers   | 6.NS.A.1 |
| 15              | Chloe has $\frac{5}{6}$ of a pie. She wants to share it equally among 5 friends. What fraction of the pie will each friend receive?  | $\frac{5}{6} \div 5 = \frac{5}{6} \div \frac{5}{1} = \frac{5}{6} \times \frac{1}{5}$<br>= $\frac{5}{30} = \frac{1}{6}$ each                           | 6.NS.A.1 |

## Fraction Word Problems Worksheet | Grades 6 to 8 | Answers

| Question number | Question  | Answers   | Standard |
|-----------------|---|---|----------|
| 16              | Ravi has $\frac{4}{7}$ of a tank of water. He uses $\frac{2}{21}$ of the tank each day for watering plants. How many days can he water the plants before the tank is empty? | $\frac{4}{7} \div \frac{2}{21} = \frac{4}{7} \times \frac{21}{2} = \frac{84}{14}$ $= 6 \text{ days}$        | 6.NS.A.1 |
| 17              | Lila has $\frac{10}{12}$ of a yard of fabric. She wants to make pieces that are $\frac{5}{12}$ of a yard each. How many pieces can she make?                                | $\frac{10}{12} \div \frac{5}{12} = \frac{10}{12} \times \frac{12}{5} = \frac{120}{60}$ $= 2 \text{ pieces}$ | 6.NS.A.1 |
| 18              | Ben has $\frac{3}{5}$ of a pound of flour. He needs $\frac{1}{15}$ of a pound for each batch of cookies. How many batches can he make?                                      | $\frac{3}{5} \div \frac{1}{15} = \frac{3}{5} \times \frac{15}{1} = \frac{45}{5}$ $= 9 \text{ batches}$      | 6.NS.A.1 |
| 19              | Ava has $\frac{6}{8}$ of a cake. She wants to divide it equally among 3 friends. What fraction of the cake will each friend receive?  | $\frac{6}{8} \div 3 = \frac{6}{8} \times \frac{1}{3} = \frac{6}{24} = \frac{1}{4}$ $\text{each}$            | 6.NS.A.1 |
| 20              | Ethan has $\frac{9}{10}$ of a yard of rope. He cuts it into pieces that are $\frac{3}{10}$ of a yard each. How many pieces can he make?                                     | $\frac{9}{10} \div \frac{3}{10} = \frac{9}{10} \times \frac{10}{3} = \frac{90}{30}$ $= 3 \text{ pieces}$    | 6.NS.A.1 |



## Do you have a group of students who need a boost in math?

Each student could receive a personalized lesson every week from our specialist one-on-one math tutors.

- ✓ Differentiated instruction for each student
- ✓ Aligned to your state's standard
- ✓ Scaffolded learning to close gaps

## Speak to us

- 🖥️ [thirdspacelearning.com/us/](https://thirdspacelearning.com/us/)
- 📞 (929) 298-4593
- ✉️ [hello@thirdspacelearning.com](mailto:hello@thirdspacelearning.com)



**THIRD SPACE**  
LEARNING