



**THIRD SPACE  
LEARNING**

# Fraction Word Problems Worksheet

Number and Quantity

**Grades 4 to 5**

## Questions

Name: .....

Date: .....

- 1 There are  $\frac{4}{7}$  pounds of nuts in a bag. If each recipe requires  $\frac{1}{7}$  pound of nuts, how many recipes can be made?

Answer

- 2 Maria ate  $\frac{3}{8}$  of a cake. Later, she ate another  $\frac{2}{8}$  of the same cake. How much of the cake did Maria eat in total?

Answer

- 3 Jamal read  $\frac{5}{10}$  of his book on Monday and  $\frac{3}{10}$  of it on Tuesday. How much of the book has Jamal read so far?

Answer

- 4 Sofia drank  $\frac{2}{6}$  of her juice in the morning and  $\frac{1}{6}$  in the evening. How much juice did she drink in total?

Answer

- 5 Durai used  $\frac{4}{12}$  of his art supplies to create a painting and  $\frac{5}{12}$  to make a collage. How much of his art supplies did he use altogether?

Answer

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- 6 Aisha poured  $\frac{3}{5}$  of a liter of paint into her tray and then added another  $\frac{1}{5}$  liter. How much paint does she have now?

Answer

- 7 At a fundraiser, each table needs  $\frac{2}{3}$  yards of ribbon.  
If there are 5 tables, how many yards of ribbon are needed in total?

Answer

- 8 Each student needs  $\frac{1}{4}$  yard of fabric to make a small flag.  
If there are 8 students in the class, how many yards of fabric are required?

Answer

- 9 Amara is making smoothies, and each smoothie requires  $\frac{3}{4}$  cups of yogurt. If she wants to make 6 smoothies, how many cups of yogurt does she need in total?

Answer

- 10 Each garden plot requires  $\frac{2}{9}$  meters of fencing.  
If there are 6 plots, how many meters of fencing are needed in total?

Answer

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- 11 Alex ran  $\frac{3}{4}$  of a mile on Saturday and  $\frac{2}{3}$  of a mile on Sunday.  
How far did Alex run in total?

Answer

- 12 Grace had  $\frac{5}{6}$  of a liter of paint for her project and spilled  $\frac{1}{4}$  of a liter.  
How much paint does she have left?

Answer

- 13 Elijah has  $\frac{7}{8}$  of a cake. He gives  $\frac{1}{3}$  of the cake to his friend.  
How much cake does Elijah have left?

Answer

- 14 Bea had  $\frac{5}{9}$  of a pie and gave away  $\frac{2}{3}$  of what she had left.  
How much pie does Bea have left?

Answer

- 15 Each student is assigned  $2\frac{1}{2}$  pages of a workbook to complete each day.  
If there are 4 students, how many pages do they complete in total?

Answer

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- 16 A recipe calls for  $\frac{2}{5}$  cup of sugar per batch.  
How much sugar is needed for 4 batches?

Answer

- 17 Sarah needs  $\frac{1}{4}$  meters of ribbon to decorate 2 gift boxes.  
How much ribbon does she use for each box?

Answer

- 18 Sylvain needs to divide  $\frac{1}{3}$  of a pound of chocolate equally among 3 friends.  
How much chocolate does each friend get?

Answer

- 19 Habiba has 4 whole oranges. She wants to divide each orange into  $\frac{1}{2}$  sections. How many  $\frac{1}{2}$  sections does she have in total?

Answer

- 20 Chandan bought  $\frac{3}{4}$  pounds of almonds.  
If he packs them equally into  $\frac{1}{4}$  pound bags, how many bags can he make?

Answer

## Answers

Question number	Question	Answers	Standard
1	There are $\frac{4}{7}$ pounds of nuts in a bag. If each recipe requires $\frac{1}{7}$ pound of nuts, how many recipes can be made?	4 recipes	4.NF.B.3
2	Maria ate $\frac{3}{8}$ of a cake. Later, she ate another $\frac{2}{8}$ of the same cake. How much of the cake did Maria eat in total?	$\frac{5}{8}$ of the cake	4.NF.B.3d
3	Jamal read $\frac{5}{10}$ of his book on Monday and $\frac{3}{10}$ of it on Tuesday. How much of the book has Jamal read so far?	$\frac{8}{10}$ or $\frac{4}{5}$ of the book	4.NF.B.3d
4	Sofia drank $\frac{2}{6}$ of her juice in the morning and $\frac{1}{6}$ in the evening. How much juice did she drink in total?	$\frac{3}{6}$ or $\frac{1}{2}$ of the juice	4.NF.B.3d
5	Durai used $\frac{4}{12}$ of his art supplies to create a painting and $\frac{5}{12}$ to make a collage. How much of his art supplies did he use altogether?	$\frac{9}{12}$ or $\frac{3}{4}$ of his art supplies	4.NF.B.3d
6	Aisha poured $\frac{3}{5}$ of a liter of paint into her tray and then added another $\frac{1}{5}$ liter. How much paint does she have now?	$\frac{4}{5}$ of a liter	4.NF.B.3d
7	At a fundraiser, each table needs $\frac{2}{3}$ yards of ribbon. If there are 5 tables, how many yards of ribbon are needed in total?	$\frac{10}{3}$ yards or $3\frac{1}{3}$ yards	4.NF.B.4c

## Fraction Word Problems Worksheet | Grades 4 to 5 | Answers

Question number	Question	Answers	Standard
8	Each student needs $\frac{1}{4}$ yard of fabric to make a small flag. If there are 8 students in the class, how many yards of fabric are required?	$8 \times \frac{1}{4} = \frac{8}{4} = 2$ yards	4.NF.B.4c
9	Amara is making smoothies, and each smoothie requires $\frac{3}{4}$ cups of yogurt. If she wants to make 6 smoothies, how many cups of yogurt does she need in total?	Amara needs $\frac{18}{4}$ or $4\frac{2}{4}$ or $4\frac{1}{2}$ cups of yogurt.	4.NF.B.4c
10	Each garden plot requires $\frac{2}{9}$ meters of fencing. If there are 6 plots, how many meters of fencing are needed in total?	$6 \times \frac{2}{9} = \frac{12}{9} = 1\frac{3}{9}$ meters or $1\frac{1}{3}$ meters	4.NF.B.4c
11	Alex ran $\frac{3}{4}$ of a mile on Saturday and $\frac{2}{3}$ of a mile on Sunday. How far did Alex run in total?	$\frac{3}{4} + \frac{2}{3} = \frac{9}{12} + \frac{8}{12} = \frac{17}{12}$ or $1\frac{5}{12}$ miles	5.NF.A.2
12	Grace had $\frac{5}{6}$ of a liter of paint for her project and spilled $\frac{1}{4}$ of a liter. How much paint does she have left?	$\frac{5}{6} - \frac{1}{4} = \frac{10}{12} - \frac{3}{12} = \frac{7}{12}$ liters	5.NF.A.2
13	Elijah has $\frac{7}{8}$ of a cake. He gives $\frac{1}{3}$ of the cake to his friend. How much cake does Elijah have left?	$\frac{7}{8} - \frac{1}{3} = \frac{21}{24} - \frac{8}{24} = \frac{13}{24}$ of the cake	5.NF.A.2
14	Bea had $\frac{5}{9}$ of a pie and gave away $\frac{2}{3}$ of what she had left. How much pie does Bea have left?	$\frac{5}{9} - (\frac{2}{3} \times \frac{5}{9}) = \frac{5}{9} - \frac{10}{27}$ $= \frac{15}{27} - \frac{10}{27} = \frac{5}{27}$ of the pie	5.NF.A.2 5.NF.B.6

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Question number	Question	Answers	Standard
15	Each student is assigned $2\frac{1}{2}$ pages of a workbook to complete each day. If there are 4 students, how many pages do they complete in total?	$4 \times 2\frac{1}{2} = 4 \times \frac{5}{2} = \frac{20}{2} = 10$ pages	5.NF.B.6
16	A recipe calls for $\frac{2}{5}$ cup of sugar per batch. How much sugar is needed for 4 batches?	$4 \times \frac{2}{5} = \frac{8}{5} = 1\frac{3}{5}$ cups	5.NF.B.6
17	Sarah needs $\frac{1}{4}$ meters of ribbon to decorate 2 gift boxes. How much ribbon does she use for each box?	$\frac{1}{4} \div 2 = \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ meters per box	5.NF.B.7c
18	Sylvain needs to divide $\frac{1}{3}$ of a pound of chocolate equally among 3 friends. How much chocolate does each friend get?	$\frac{1}{3} \div 3 = \frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$ pounds per friend	5.NF.B.7c
19	Habiba has 4 whole oranges. She wants to divide each orange into $\frac{1}{2}$ sections. How many $\frac{1}{2}$ sections does she have in total?	$4 \div \frac{1}{2} = 4 \times 2 = 8$ sections	5.NF.B.7c
20	Chandan bought $\frac{3}{4}$ pounds of almonds. If he packs them equally into $\frac{1}{4}$ pound bags, how many bags can he make?	$\frac{3}{4} \div \frac{1}{4} = \frac{3}{4} \times \frac{4}{1} = \frac{12}{4} = 3$ bags	5.NF.B.7c






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-  (929) 298-4593
-  [hello@thirdspacelearning.com](mailto:hello@thirdspacelearning.com)



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