



## Math Worksheet for 5th Grade

### Dividing fractions and whole numbers word problems

Name: \_\_\_\_\_

Due Date: \_\_\_\_\_

Teacher: \_\_\_\_\_

Parent Sign: \_\_\_\_\_

1. Sarah has  $\frac{3}{4}$  yard of ribbon. She cuts it into pieces that are  $\frac{1}{8}$  yard long. How many pieces can she cut?
2. A cookie recipe needs  $\frac{2}{3}$  cup of sugar per batch. How many batches can you make with 4 cups of sugar?
3. Jake ran  $\frac{5}{6}$  of a mile and wants to split his route into  $\frac{1}{3}$ -mile segments. How many  $\frac{1}{3}$ -mile segments are in  $\frac{5}{6}$  mile?
4. A pizza is cut into eighths. If Maya eats  $\frac{3}{4}$  of the pizza, how many  $\frac{1}{8}$  slices did she eat?
5. A teacher has  $\frac{7}{8}$  of a box of paperclips. She gives each group  $\frac{1}{4}$  box. How many groups can get  $\frac{1}{4}$  box of paperclips?
6. Liam has  $1\frac{1}{2}$  pounds of flour. Each bag needs  $\frac{3}{4}$  pound. How many bags can he fill?
7. A track is 2 miles long. How many  $\frac{2}{5}$ -mile segments fit into 2 miles?
8. A recipe uses  $\frac{3}{5}$  cup of milk. With 4 cups of milk, how many recipes can you make?
9. Hannah has  $\frac{9}{10}$  kilogram of clay. She makes pieces that are  $\frac{1}{5}$  kilogram each. How many pieces does she get?
10. A rope is  $6\frac{1}{2}$  feet long. If you cut it into pieces that are  $\frac{1}{4}$  foot long, how many pieces do you get?
11. A gardener has  $\frac{3}{4}$  gallon of fertilizer and uses  $\frac{1}{6}$  gallon per plant. How many plants can she feed?
12. You have  $\frac{2}{3}$  liter of juice and pour it into glasses that hold  $\frac{1}{8}$  liter. How many full glasses do you fill (and how much would be left)?
13. You have 5 pounds of yarn. Each sweater uses  $\frac{3}{4}$  pound. How many sweaters can you make?
14. A ribbon  $4\frac{1}{4}$  yards long is cut into pieces that are  $\frac{2}{5}$  yard long. How many pieces are there?
15. Tom has  $\frac{3}{5}$  of a chocolate bar. He gives each friend  $\frac{1}{10}$  of a bar. How many friends can get  $\frac{1}{10}$  bar?
16. How many half-mile stretches are there in 7 miles?
17. A length of fabric is  $\frac{11}{12}$  yard. How many  $\frac{1}{6}$ -yard pieces can you cut from it?
18. A race car uses  $\frac{5}{8}$  gallon of fuel per lap. With 3 gallons of fuel, how many laps can the car run?
19. A baker has  $2\frac{3}{4}$  cups of flour. Each cupcake requires  $\frac{1}{3}$  cup. How many cupcakes can she make?
20. Nina read  $\frac{7}{8}$  of a book. The unread part is cut into pages that are  $\frac{1}{16}$  of the book each. How many  $\frac{1}{16}$  sections are left unread?
21. A  $\frac{5}{6}$ -pound piece of cheese is cut into slices that weigh  $\frac{1}{12}$  pound each. How many slices are there?
22. You have 9 liters of juice. You pour it into bottles that hold  $\frac{4}{9}$  liter each. How many bottles do you fill?
23. A rope is  $2\frac{1}{3}$  feet long. It is cut into pieces  $\frac{2}{9}$  foot long. How many pieces are there?
24. A student has  $1\frac{2}{5}$  pounds of clay. She uses  $\frac{2}{3}$  pound for each model. How many full models can she make?
25. A water tank holds  $8\frac{1}{2}$  gallons. Each plant needs  $\frac{3}{7}$  gallon. How many plants can be watered?
26. A recipe calls for  $\frac{3}{4}$  cup of sugar to make 8 muffins. How much sugar does one muffin need?
27. A bag of nuts weighs  $\frac{7}{8}$  pound. The bag is shared equally among 7 friends. How much does each friend get?
28. A  $5\frac{1}{2}$  meter rope is cut into 11 equal pieces. How long is each piece?
29. A  $\frac{2}{3}$ -acre field is divided into 6 equal plots. What is the area of each plot?
30. A baker splits  $1\frac{1}{4}$  kilograms of dough equally to make 5 loaves. How much dough is in each loaf?
31. A paint can holds  $4\frac{1}{2}$  liters. The paint is used equally to paint 9 rooms. How many liters per room?



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32.  $\frac{3}{4}$  cup of chocolate is shared equally among 3 friends. How much does each friend get?
33. A bag of rice weighs  $\frac{8}{9}$  kilogram and is divided into 3 equal portions. How much is each portion?
34. A ribbon  $2\frac{2}{3}$  feet long is cut into 4 equal pieces. How long is each piece?
35. A baker has  $\frac{3}{5}$  gallon of milk and divides it equally into 5 containers. How much milk is in each container?
36. A recipe needs  $\frac{2}{5}$  teaspoon of salt for 1 cookie. If the same amount ( $\frac{2}{5}$  tsp) is split equally among 4 cookies, how much salt is used per cookie?
37. A strip of fabric is  $3\frac{3}{4}$  yards and is cut into 15 equal pieces. How long is each piece?
38. Mia has  $\frac{5}{6}$  kilogram of berries. She shares them equally between 2 friends. How much does each friend get?
39. A  $9\frac{1}{2}$  meter rope is cut into 19 equal pieces. How long is each piece?
40. A concentrate of  $\frac{4}{5}$  liter is used to make 10 bottles equally. How much concentrate goes into each bottle?
41. A large pan uses  $\frac{3}{8}$  cup of oil to serve 6 people. How much oil per person?
42. A baker has  $\frac{7}{10}$  kilogram of flour and divides it equally among 5 recipes. How much flour per recipe?
43. A turkey weighs  $6\frac{3}{4}$  pounds and is carved into 9 equal portions. How much does each portion weigh?
44. A container holds  $2\frac{1}{2}$  liters of sanitizer and is used to fill 20 small bottles equally. How much sanitizer is in each small bottle?
45. A package of cereal weighs  $\frac{7}{8}$  kilogram and is packed into 7 equal bags. How much cereal is in each bag?
46. A gardener divides  $1\frac{1}{2}$  yard of fencing equally into 6 parts. How long is each part?
47. A pitcher holds  $3\frac{1}{3}$  cups of juice. The juice is poured equally into 5 glasses. How much juice in each glass?
48. A baker has  $1\frac{1}{4}$  kilograms of sugar and divides it into 8 equal portions. How much sugar per portion?
49. A rope is  $\frac{13}{5}$  meters long. It is cut into pieces each  $\frac{2}{5}$  meter long. How many pieces do you get?
50. A chef has  $4\frac{2}{3}$  cups of broth and uses  $\frac{3}{4}$  cup for each batch of soup. How many batches can the chef make?