

FRACTIONS UNIT STUDY GUIDE

I CAN ADD, SUBTRACT, AND MULTIPLY FRACTIONS.

6.NS.2.4

1. $2\frac{5}{6} + 3\frac{1}{4} =$

2. $6\frac{1}{5} - 2\frac{2}{3} =$

3. $1\frac{2}{7} \cdot \frac{1}{3} =$

4. Mr. Anderson is cutting lumber to use as a border around his garden. One length of lumber is $2\frac{7}{8}$ feet long, and the second piece of lumber is $1\frac{1}{3}$ feet long. How much longer is the first piece than the second piece?

5. Mrs. Smith bought $\frac{4}{5}$ of a pound of red jelly beans, $1\frac{2}{3}$ pounds of green jelly beans, and $1\frac{3}{5}$ pounds of purple jelly beans at the grocery store. What was the total weight of Mrs. Smith's purchase?

6. A recipe requires $1\frac{2}{3}$ cups of sugar. If Mrs. Marina is going to make one half of the recipe, then how much sugar does she need?

7. Stephanie studied for her Science test for $\frac{5}{6}$ of an hour on Monday and on Tuesday for $\frac{1}{2}$ of an hour. How long did Stephanie study this week?

8. An article fills $\frac{5}{8}$ of a magazine page. A related photo takes up $\frac{1}{4}$ of the article. How much of the page is taken up by the photo?

9. Trista has $3\frac{3}{4}$ yards of ribbon to use for making decorative pillows. If one pillow uses $2\frac{1}{6}$ yards of ribbon, then how much ribbon is remaining?

I CAN USE EQUATIONS TO REPRESENT PROBLEMS.**6.NS.1.1**

11. Write a real world problem to represent the equation below:

$$12 \div \frac{3}{10} = 40$$

12. Write an equation to represent the real world problem below:

The area of a rectangle measures $\frac{9}{14}$ feet².
It has a length of $\frac{3}{7}$ of a foot and
a width of $1\frac{1}{2}$ feet.

I CAN COMPUTE QUOTIENTS OF FRACTIONS.**6.NS.1.1**

13. Solve.

$$\frac{1}{2} \div 3 =$$

14. Solve.

$$7 \div \frac{3}{10} =$$

15. Solve.

$$\frac{7}{8} \div \frac{9}{10} =$$

16. Solve.

$$\frac{2}{3} \div \frac{1}{6} =$$

17. Solve.

$$1\frac{3}{4} \div \frac{1}{3} =$$

18. Solve.

$$2\frac{1}{5} \div \frac{3}{4} =$$

I CAN SOLVE WORD PROBLEMS INVOLVING QUOTIENTS OF FRACTIONS.**6.NS.1.1**

19. Chris is building a model out of wire. He has a length of wire that measures $\frac{9}{10}$ of a yard. If he cuts it into 5 equal parts, then how long will each piece be?

20. A length of rope measures 5 yards. Kari would like to cut it into equal portions $\frac{2}{5}$ of a yard long. How many pieces will Kari be able to cut from the rope?

21. Chelsea is sewing handmade scarves for her sisters and friends. She has $4\frac{5}{6}$ yards of material and needs $\frac{7}{8}$ of a yard of material for each scarf. How many scarves can she make with the existing material?

22. A carton of milk holds 10 cups. A recipe for strawberry milkshakes requires $\frac{3}{4}$ of a cup of milk. How many recipes could you make with the carton of milk?

23. Mr. Jordan teaches a gardening class. He finds that he has $12\frac{1}{2}$ pounds of soil for a project. The project requires $\frac{7}{10}$ of a pound. How many people can complete a project from the gardening class?

24. The area of a rectangular shape measures $\frac{4}{7}$ square feet. If the length of the shape is $\frac{2}{3}$ of a foot, then how wide is the rectangle?