

FRACTION OPERATIONS UNIT STUDY GUIDE

Solve each of the problems below. These represent the types of questions on your test. Be sure to ask questions if you need more help with a topic.

I CAN FIND THE GCF AND THE LCM.

1. LCM: 14 and 49

2. LCM: 8 and 12

3. LCM: 8, 10 and 15

4. GCF: 80 and 56

5. GCF: 24 and 18

6. GCF: 16, 28, and 42

I CAN MODEL DIVISION WITH FRACTIONS.

7.

$$\frac{1}{2} \div 3 = \underline{\hspace{2cm}}$$

When _____ is divided into _____ groups
how large is each group?

8.

$$2 \div \frac{3}{4} = \underline{\hspace{2cm}}$$

How many _____ are in _____?

I CAN USE EQUATIONS TO REPRESENT PROBLEMS.

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

$$10 \div \frac{2}{3} = 15$$

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

The area of a rectangle measures $\frac{9}{14}$ ft².
It has a length of $\frac{3}{7}$ of a foot and
a width of $1\frac{1}{2}$ feet.

I CAN ADD AND SUBTRACT FRACTIONS.

11.

$$4\frac{1}{5} - 1\frac{1}{4} = \underline{\hspace{2cm}}$$

12.

$$3\frac{2}{5} + 1\frac{1}{3} = \underline{\hspace{2cm}}$$

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

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

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

16. Sarah bought $4\frac{2}{3}$ pounds of peaches and $2\frac{1}{6}$ pounds of apples. How many more pounds of peaches did she buy than apples?

I CAN FLUENTLY MULTIPLY AND DIVIDE FRACTIONS

17. $2\frac{2}{5} \cdot \frac{3}{8} = \underline{\hspace{2cm}}$

18. $\frac{5}{12} \div \frac{2}{5} = \underline{\hspace{2cm}}$

19. $10\frac{1}{2} \div \frac{3}{4} = \underline{\hspace{2cm}}$

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

21. 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?

22. 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 for each scarf. How many scarves can she make with the existing material?

23. 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?

24. 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 projects can be completed in gardening class?

25. 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?