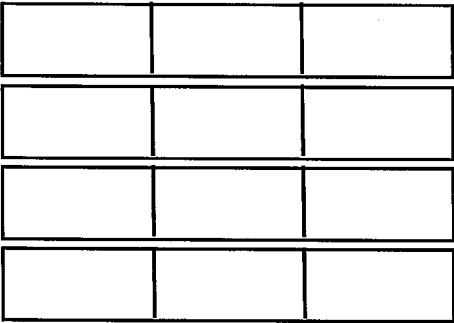
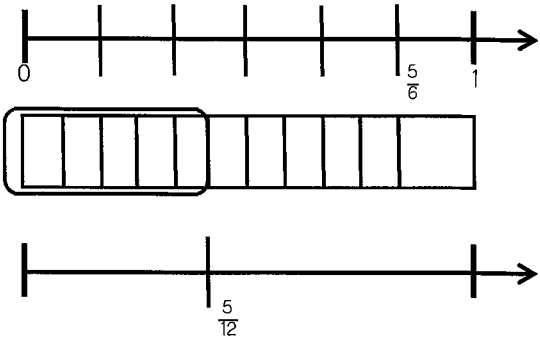
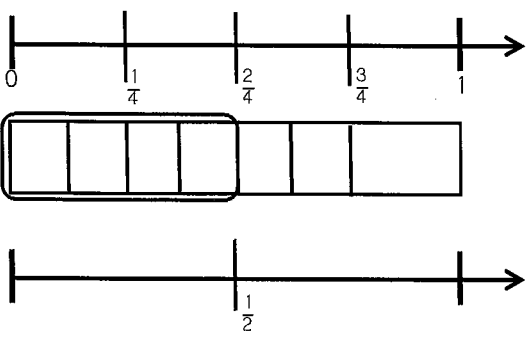
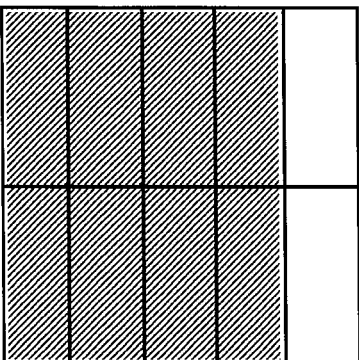


FRACTION OPERATIONS UNIT STUDY GUIDE

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.			6.NS.4
1. LCM: 14 and 49	2. LCM: 8 and 12	3. LCM: 8, 10 and 15	
98	24	120	
4. GCF: 80 and 56	5. GCF: 24 and 18	6. GCF: 16, 28, and 42	
8	6	2	

I CAN USE VISUAL FRACTION MODELS.		6.NS.1
7.	$4 \div \frac{1}{3} = 12$ 	8.
		$\frac{5}{6} \div 2 = \frac{5}{12}$ 
9.	$\frac{3}{4} \div \frac{1}{2} = 1\frac{1}{2}$ 	10.
		$\frac{4}{5} \div 2 = \frac{2}{5}$ 

I CAN USE EQUATIONS TO REPRESENT PROBLEMS.**6.NS.1**

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

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

varies

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.

$$\frac{3}{7} \cdot 1\frac{1}{2} = \frac{9}{14}$$

I CAN COMPUTE QUOTIENTS OF FRACTIONS.**6.NS.1**

13. Solve.

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

 $\frac{1}{6}$

14. Solve.

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

 $23\frac{1}{3}$

15. Solve.

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

 $\frac{35}{36}$

16. Solve.

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

4

17. Solve.

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

 $5\frac{1}{4}$

18. Solve.

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

 $2\frac{14}{15}$

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

$$\frac{9}{50}$$

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?

$$12\frac{1}{2}$$

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?

$$5\frac{11}{21}$$

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?

$$13\frac{1}{3}$$

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?

$$17\frac{6}{7}$$

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?

$$\frac{6}{7}$$

I CAN ADD, SUBTRACT, AND MULTIPLY FRACTIONS.

25.

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

$$6\frac{1}{12}$$

26.

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

$$3\frac{8}{15}$$

27.

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

$$\frac{3}{7}$$

28. 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?

$$1\frac{13}{24}$$

29. 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?

$$4\frac{1}{15}$$

30. 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?

$$\frac{5}{6}$$

31. 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?

$$1\frac{1}{3}$$

32. 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?

$$\frac{5}{32}$$

33. 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?

$$1\frac{7}{12}$$