3rd Benchmark Study Guide
Conversions & Fractions

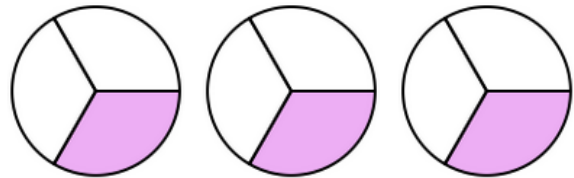1. Show another way to write this expression $\frac{10}{13}$

2. Show another way to write this expression $2 \div 5$

3. Ben has 9 cookies in a box. He divides them equally among his two friends. How many cookies does each friend receive?

4. Tell what will happen to the product without solving.
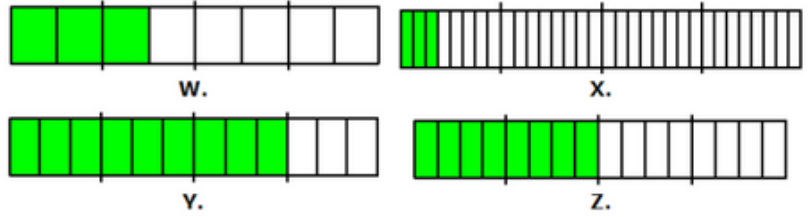$$\frac{1}{9} \times \frac{4}{4}$$

5. Write an equation that is modeled by this figure. Then TELL what the product will be.

6. Tell what will happen to the product in this equation.
$$4 \times \frac{7}{2}$$

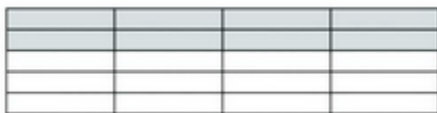7. Matt divides his money into four categories. What fraction of his money does have saving and give to charity?

Food
$\frac{1}{14}$

Saving
$\frac{1}{3}$

Fun $\frac{3}{7}$

$\frac{1}{6}$

Charity

8. Which model is shaded to show the product of $\frac{3}{8} \times \frac{1}{4}$?

W.

X.

Y.

Z.

    a. W
    b. Y
    c. X
    d. Z
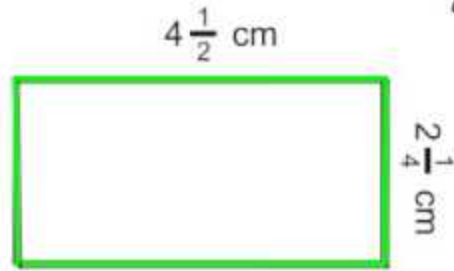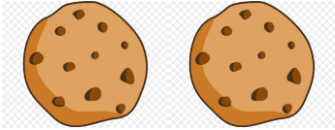
9. Solve the following:

$$\frac{1}{2} \div 11 =$$

10. What equation does the model below show?

11. Find the area.

$4\frac{1}{2}$ cm

$2\frac{1}{4}$ cm

12.   There are 4 friends that want to share 2 cookies. What fraction of each cookie will each person get?

13.   Find the sum of this expression. Then simplify.

$$\frac{1}{8} + \frac{3}{16} =$$

14.   Find the value of the expression $5\frac{2}{3}$ $2\frac{1}{9} =$

15.   Mrs. Stevens has ten cookies. She divides them evenly among three students. Between which two whole numbers does the number of cookies each student gets lie?

16.   Convert to pints: 12 quarts

17. Sadie decorated her horse with ribbons for the Memorial Day Parade. In the mane, she used 5 feet of ribbon. She used an additional 8 inches of ribbon around her front right leg.

How many inches of ribbon did she use altogether for the horse?

18. Brody rearranged the entertainment room at his house. Before the move, he had his game console plugged into an electrical cord that was 60 inches long. After he moved everything, he had to add an additional cord that was 2 feet long.

How many feet of electrical cord did he use altogether?

19. Convert to centimeters: 41 meters

20. Kim made 3 batches of this fruit punch recipe.

Combine:
40 milliliters of strawberry juice
400 milliliters of pineapple juice
2 liters of apple juice
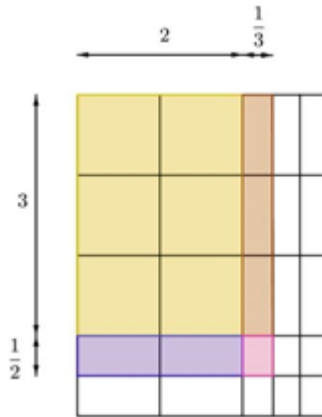
How many liters of fruit punch did Kim make?

21. The student council pledged to donate 300 minutes to a local charity during the month of March. The first weekend, they spent 2 hours at the charity.

How many hours did the student council have remaining after the first weekend?

22. Hogan's goal is to run 2 2/4 miles a day. He ran $\frac{2}{3}$ mile in the morning. He says he still needs to run 1 $\frac{1}{8}$ miles in the afternoon to reach his daily goal.

Is Hogan's statement reasonable? Explain why or why not.

23. Find the area.

24.   Which symbol will make this comparison true?

$$\tfrac{4}{5} \times 10 \ \underline{\hspace{3em}} \ 10$$

25.   Convert to pounds: 10 tons

 Key: 2,000 lbs= 1 ton