Review Unit 6
Multiplication & Division of
Whole Numbers by a Fraction

1.

2. Solve the expression
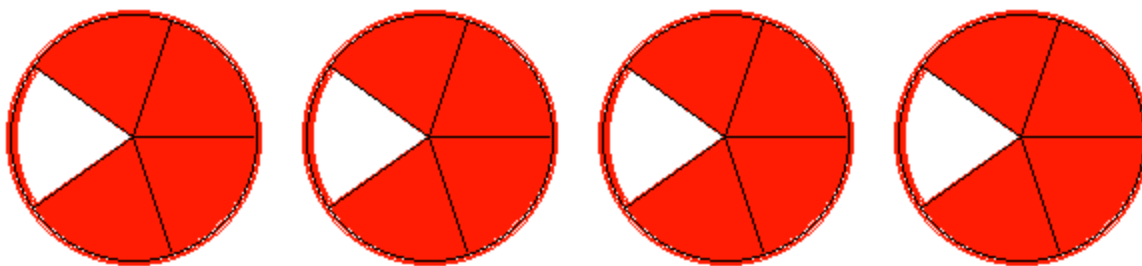
2/3 (8 X 3) + (13 + 4 6/7)

3. Ms. Correll has 164 pizzas that she needs to cut into eighths. What is the best estimate of the number of slices of pizza she will have after she cuts the pizzas?

4. Ms. Tollette uses ¾ cup of dark brown sugar to make one batch of chocolate chip cookies. How much sugar will she need if she is going to make 8 batches of chocolate chip cookies?

5.

6. Which equation is represented by the shaded part of the model?

A. ⅕ + 4 = 4 ⅕
B. ⅕ X 4 = ⅘
C. ⅘ X 4 = 3 ⅕
D. ⅘ + 4 = 4 ⅘

7. Mrs. Halata gave a test to 73 students. She has already graded ⅕ of the tests. About how many tests has she graded?

8.

10.

11. Mrs. Hogue shares 1/3 of her quart of coffee with Mrs. Davis and Mrs. Halata. How much of the quart of coffee does Mrs. Davis receive (all 3 will share the ⅓)?

12.

13. Mrs. Gomersall shares ½ of a candy bar with Mrs. Schmanske and Mrs. Karjooy. How much of the candy bar will each of the 3 teachers receive?

14.

15. Mrs. Houge is baking brownies for her daughter's volleyball party. She wants to make 5 batches of brownies. The recipe calls for ¼ cup of flour per batch. She needs to know the amount of flour, in cups, she needs for the 5 batches of brownies. Which of the following could be the solution?

    a.   5 + ¼ = 5 ¼
    b.   5 x ¼ = 5/20 = ¼
    c.   5 ÷ ¼ = 20
    d. 5 x ¼ = 1 ¼

16. Solve the expression

$$90 - [(10 ÷ 1/2) x 4]$$

17. Your teacher will have a number line drawn on the board for you to complete this question.

Which division fact is represented by the model?

    a.   ¼ ÷ 1/7 = 1 3/4

    b. 7 ÷ 4 = 1 3/4

    c. 1/7 ÷ 4 = 1/28

    d. 7 ÷ ¼ = 28

18. How many groups of ⅓ are there in 8 wholes?

19.

20. Bella has 4 packages of goldfish crackers that she will share with her friends. She will put ¼ of each bag into bowls for her friends to share. How many bowls will she use?

Optional 6th grade problems:

21. Jackson wanted a new pair of soccer cleats. His generous mother agreed to pay $25, which was ⅓ of the total cost. Jackson had to save the rest of the money to buy the cleats. What was the total cost of the cleats?

22. Ms. Tollette bought a ticket to an aggie game for $120. Now that the Aggies are undefeated, she is able to sell her ticket for 5/4 of the original price. How much did the ticket sell for?

23. 1 ⅚ X 5/7 =

24. Mrs. Gomersall's son, Alex was making cookies for the basketball team. He baked 6 ⅔ batches of cookies. If he puts ⅓ of a batch into each bag, how many bags of cookies will he have?

25. Mrs. Davis is rewarding her students who made a 100 on the test with cookie cake. She has 6 cookie cakes that will be shared equally among 48 students. Write two equivalent representations (one horizontal and one as a fraction) that could be used to determine how much cookie cake each student will receive.