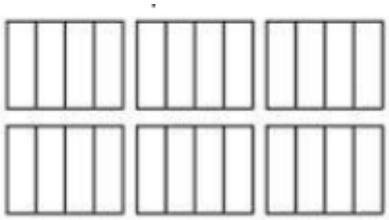
Name: _____

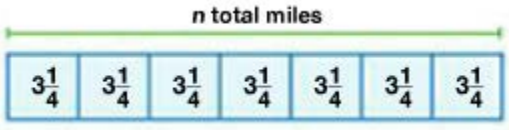
Due Date: _____

Topic 11 study Guide

1. How many ¾s are in 6?



2. Alberto runs 3 ¼ miles each day. Which of the following can be used to find n, the number of miles he will run in a week?
   a. 3 ¼ x n=7
   b. 7 x n= 3 ¼
   c. 7 x 3 ¼ =n
   d. 3 ¼ ÷ 7= n



3. If the diameter of a tree trunk is growing ¼ inch per year, how many years will it take for the diameter to grow 8 inches?

4. Find the area of a rectangle with sides of lengths $\frac{1}{12}$ and $\frac{3}{4}$ foot?

5. Mrs. Webster wants to divide the milk shown into servings that are $\frac{2}{3}$ of a pint in size. How many servings are possible?

6. Mary is making a window covering that has 5 sections, each of which is 1 $\frac{3}{10}$ feet in width. What is the width of the entire window covering?

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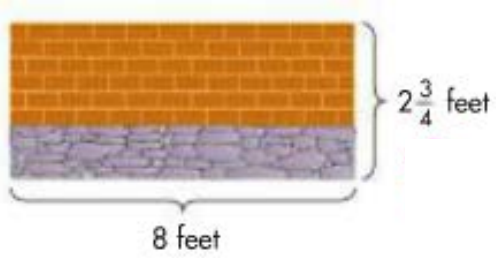
7. Which of the following is equal to $\frac{4}{7} \times \frac{14}{3}$?
   a. $\frac{4}{7} \times \frac{3}{14}$
   b. $4 \times \frac{2}{3}$
   c. $\frac{7}{4} \times \frac{14}{3}$
   d. $\frac{2}{7} \times \frac{7}{3}$

8. Tracy took a quiz containing 12 items. If she got 5/6 of the items correct, how many did she get correct?

9. A retaining wall on the playground is shown below. If 2/3 of the wall is made from brick, what is the height of the brick part of the wall?



10. What is the area of the retaining wall (from #9)?

11. If the retaining wall in the problems above was a rectangle with dimensions (both length and width) twice as great, what would be the perimeter?

12. Which symbol (<, >, =) belongs in the box?

$$\frac{3}{4} \times \frac{3}{5} \square \frac{4}{4} \times \frac{3}{5}$$

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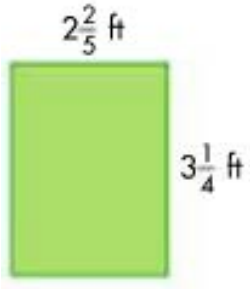
13. Tom and his friends are rolling out clay for an activity in art class. Tom rolled out his clay until it was 2 feet long. Hans rolled his 1 ½ times as far. Janet rolled hers $\frac{4}{4}$ as far. Noah rolled his $\frac{3}{5}$ as far. Put the students in order of the length of their class from greatest to least. Explain how you found your answer.

14. One-half of a cantaloupe was shared among 3 people. How much cantaloupe did each person get? Explain how you found your answer.

15. Lisa has 64 cloth strips to make a rug. There are 8 red strips and 14 blue strips. What fraction of the cloth strips is red? What fraction is blue?

16. Gina is buying juice for a class breakfast at school. At the discount store, she can purchase 30 individual juice boxes for $21.99. At the grocery store, she can buy ½ gallon cartons of juice. Each carton is $3.99 and contains 5 servings. Which is the better buy?

17. Estimate the area of the rectangle below.