

## Math Test Review - Topic 16 (Answer Key available online)

- I can add, subtract, and multiply with common fractions and decimal fractions.
  - I can convert and simplify fractions.
- 

1. Write 3 equivalent fractions for each:

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

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

2. Tom wants  $\frac{1}{3}$  of a recipe that calls for  $3\frac{1}{3}$  cups of flour. How much flour is needed?

3. Two-thirds of the gym were boys. One-fifth of the boys were shooting baskets. What fraction of the class was shooting baskets?

4.  $\frac{2}{7} \times \frac{2}{4} = \underline{\hspace{2cm}}$

$\frac{1}{2} \times 3\frac{1}{4} = \underline{\hspace{2cm}}$  (remember to reduce if needed)

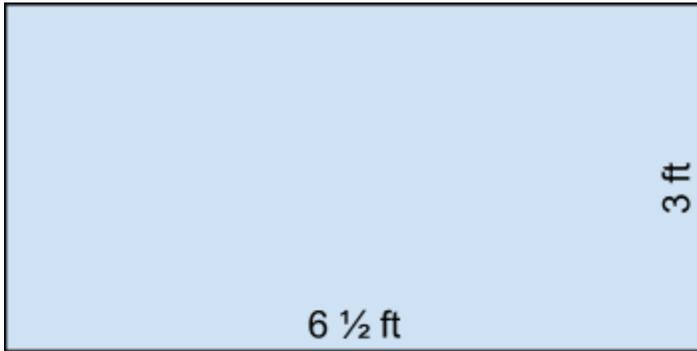
5. Give the largest possible product using 3,7,9,2. (Hint: Think improper fractions!)

$$\frac{\square}{\square} + \frac{\square}{\square} = \frac{\square}{\square}$$

6. How many places to the left would the decimal point move if you divided by 100?  
(For example,  $1,233.1 / 100 = ?$ )

- A. 2 places to the left ( $1,233.1 / 100 = 12.331$ )
- B. 3 places to the left ( $1,233.1 / 100 = 1.2331$ )
- C. 1 place to the left ( $1,233.1 / 100 = 123.31$ )

7. What is the area of the tabletop below. Be sure to label correctly!



Area: \_\_\_\_\_

8. What do you do first to solve this?

$$\frac{3}{5} - \frac{2}{3}$$

\_\_\_\_\_

9.  $\frac{1}{5} + \frac{2}{4} =$  \_\_\_\_\_

$\frac{2}{7} - \frac{1}{4} =$  \_\_\_\_\_

Work:

10. Simplify the following fractions:

A.  $\frac{14}{32} =$  \_\_\_\_\_

B.  $\frac{6}{20} =$  \_\_\_\_\_

C.  $\frac{12}{36} =$  \_\_\_\_\_

11. Multiply:

$.03 \times 4 =$  \_\_\_\_\_

$.003 \times 4 =$  \_\_\_\_\_

$.03 \times .04 =$  \_\_\_\_\_

12. Tom bought  $\frac{1}{2}$  of a cake. Timmy bought  $\frac{1}{6}$  of the same cake. Draw a picture in the box to show how to solve the following questions:



A. How much cake did they buy in all? \_\_\_\_\_

B. How much cake is left? \_\_\_\_\_

**Use the following information for questions 13 - 15.**

A garden measuring 12 feet by 8 feet is divided into vegetables and herbs.  $\frac{3}{4}$  of the garden will be planted with vegetables and the rest will be planted with herbs.

- $\frac{1}{2}$  of the herbs will be basil.
- $\frac{1}{6}$  of the herbs will be thyme.
- $\frac{1}{8}$  of the vegetables will be corn
- $\frac{1}{4}$  of the vegetables will be beets



12. What is the **total** area of the garden?

\_\_\_\_\_

13. How many square feet will be **herbs**?

\_\_\_\_\_

(Hint: Think, "What is  $\frac{1}{4}$  of the total area?" This will find the area of the garden set aside as herbs.)

A. Find the *area* of the garden that will be planted with basil: \_\_\_\_\_

(Hint: Think, "What is  $\frac{1}{2}$  of the area that is planted with *herbs*?")

B. Find the *area* of the garden that will be planted with thyme: \_\_\_\_\_

(Hint: Think, "What is  $\frac{1}{6}$  of the area planted with *herbs*?")

14. How many square feet will be planted with **vegetables**? \_\_\_\_\_

(Hint: Think, "What is  $\frac{3}{4}$  of the total area?" This will find the area of the garden set aside as vegetables.)

A. Find the *area* of the garden that will be planted with corn: \_\_\_\_\_

(Hint: Think, "What is  $\frac{1}{8}$  of the area that is planted with *vegetables*?")

B. Find the *area* of the garden that will be planted with beets: \_\_\_\_\_

(Hint: Think, "What is  $\frac{1}{4}$  of the area that is planted with *vegetables*?")