

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)

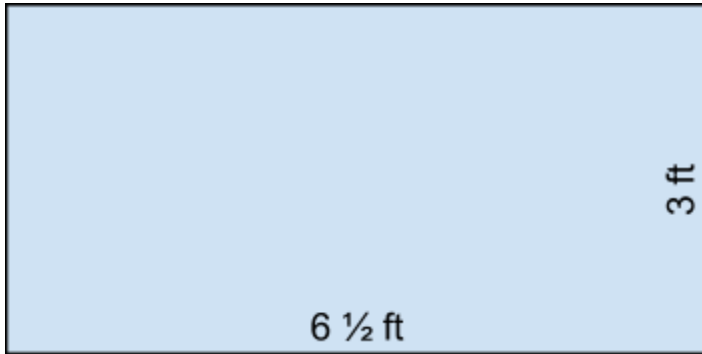
5. Give the largest possible product using 3,7,9,2. (Hint: Think improper fractions!)

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

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*?")