
Fractions

Practice Test 2

Name: _____

1. Using a complete English sentence, state the **fundamental fact about equivalent fractions (FFEF)** .

2. For each given fraction, figure out if it is equivalent to a fraction with 12 in the denominator and then circle either YES or NO accordingly. If you circle YES, then write the equivalent fraction with 12 in the denominator and a whole number in the numerator.

(A)	$\frac{1}{2}$	YES	NO
(B)	$\frac{2}{3}$	YES	NO
(C)	$\frac{5}{4}$	YES	NO
(D)	$\frac{6}{5}$	YES	NO
(E)	$\frac{7}{6}$	YES	NO
(F)	$\frac{8}{9}$	YES	NO
(G)	$\frac{1}{10}$	YES	NO

3. First fraction = $\frac{2}{3}$ Second fraction = $\frac{2 \times 4}{3 \times 4} = \frac{8}{12}$

On the number line below, locate both $\frac{2}{3}$ and also $\frac{8}{12}$.



From your work above, what can you conclude about the relationship between the first and second fraction? Complete the blank.

The two fractions are _____ fractions.

4. For each given fraction, write an equivalent fraction whose denominator is given to you. Fill in the blank with a whole number.

(A) $\frac{3}{2} = \frac{\quad}{8}$

(B) $\frac{3}{10} = \frac{\quad}{100}$

(C) $\frac{3}{5} = \frac{\quad}{10}$

(D) $\frac{1}{6} = \frac{\quad}{12}$

5. Circle **ALL** fractions that are equal to $\frac{2}{5}$.

$$\frac{1}{2}$$

$$\frac{4}{10}$$

$$\frac{8}{20}$$

$$\frac{6}{9}$$

$$\frac{20}{50}$$

$$\frac{12}{15}$$

6. Add the fractions. Show all steps. Use equal signs as discussed in class.

(A) $\frac{3}{10} + \frac{4}{100}$

(B) $\frac{39}{100} + \frac{3}{10} + \frac{1}{100}$

(C) $\frac{2}{10} + \frac{7}{10} + \frac{3}{100}$

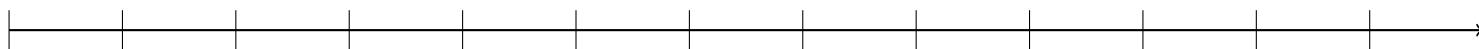
7. (a) Express the following improper fraction as a mixed number.

$$\frac{25}{4}$$

(b) Between which two **consecutive whole numbers** does the given improper fraction lie? Fill in the blanks with the correct whole numbers. Hint: use your work from part a) above.

$$< \frac{25}{4} <$$

(c) Now, find an approximate location for the mixed number on the number line. A line with tick marks has been provided for you for convenience.



8. Vanessa measured out $3\frac{2}{3}$ cups of juice into a bowl. She then added to it another $4\frac{2}{3}$ cups.

How many total cups of juice are now in the bowl?

9. Kevin has a container that contains $13\frac{1}{8}$ cups of water.

He uses $2\frac{3}{8}$ cups from the container to water his plants. How much water is remaining in the container?

10. Arrange the numbers in **increasing** order.

$$\frac{3}{10}, \quad \frac{36}{100}, \quad \frac{1}{100}, \quad 50, \quad \frac{1}{10}, \quad 1, \quad 2\frac{1}{100}, \quad 2\frac{1}{10}$$

11. Circle **ALL** expressions that are greater than 1.

$$13 \times \frac{1}{10}$$

$$5 \times \frac{2}{11}$$

$$6 \times \frac{2}{9}$$

$$3 \times \frac{5}{12}$$

12. Circle **ALL** expressions that are equal to $4 \times \frac{5}{3}$.

$$20 \times \frac{1}{3}$$

$$2 \times \frac{10}{3}$$

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

$$5 \times \frac{1}{12}$$

$$5 \times \frac{1}{20}$$

13. There are 5 bags of chips in a basket. Each bag weighs $5\frac{1}{3}$ oz . Find the total weight of 5 bags.

14. There are 8 bottles of milk on the table. Each bottle contains $\frac{3}{5}$ liter of milk. Find the total amount of milk in the 8 bottles.

15. Express each decimal fraction as a finite decimal.

$$\frac{507}{10} =$$

$$\frac{507}{100} =$$

$$\frac{2}{100} =$$

$$\frac{2}{10} =$$

16. Express each finite decimal as a decimal fraction.

$$3.9 =$$

$$0.86 =$$

$$2.07 =$$

$$41.09 =$$

$$0.63 =$$

$$0.1 =$$

17. Compare each pair of numbers by placing $<$ or $=$ or $>$ sign between them.

(A) $\frac{7}{10}$ $\frac{17}{100}$

(B) $\frac{3}{5}$ $\frac{5}{10}$

(C) $\frac{2}{6}$ 1

(D) 0.9 0.23

(E) 0.98 1

(F) 0.6 1.6