
Fractions

Practice Test 2

Name: _____

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

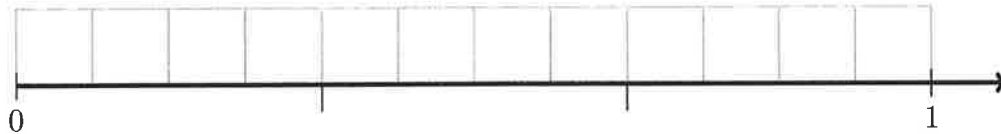
2. For each given fraction, figure out if it is equivalent to a fraction with 12 in the denominator and then circle either YES or NO accordingly. If you circle YES, then write the equivalent fraction with 12 in the denominator and a whole number in the numerator.

- | | | | |
|-----|----------------|-----|----|
| (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.

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

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.