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# Fractions

## Practice Test 2

Name: \_\_\_\_\_

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

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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.

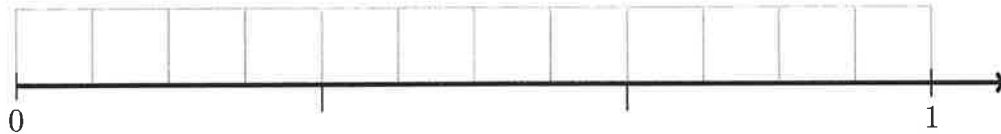
- |     |                |     |    |
|-----|----------------|-----|----|
| (A) | $\frac{1}{2}$  | YES | NO |
| (B) | $\frac{2}{3}$  | YES | NO |
| (C) | $\frac{5}{4}$  | YES | NO |
| (D) | $\frac{6}{5}$  | YES | NO |
| (E) | $\frac{7}{6}$  | YES | NO |
| (F) | $\frac{8}{9}$  | YES | NO |
| (G) | $\frac{1}{10}$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

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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.

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

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

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

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

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

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

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

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

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

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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?

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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?

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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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.