

Unit 9

Unit Assessment, Form B

Name _____

1. How can you find the sum? Use the fraction model to represent the equation.

$$\frac{3}{6} + \frac{1}{6} = \underline{\quad}$$



2. Svetlana, Tristan, and Brandon paint a fence. Svetlana paints $\frac{2}{12}$ of the fence, Tristan paints $\frac{5}{12}$ of the fence, and Brandon paints $\frac{3}{12}$ of the fence. What fraction of the fence do they paint in all?

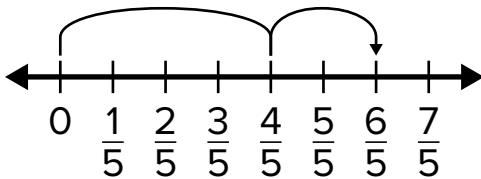
- A. $\frac{2}{12}$ of the fence
 B. $\frac{11}{12}$ of the fence
 C. $\frac{3}{12}$ of the fence
 D. $\frac{10}{12}$ of the fence

3. Which fraction decomposes into the addition expression

$$\frac{3}{10} + \frac{1}{10} + \frac{1}{10}?$$

- A. $\frac{5}{10}$
 B. $\frac{7}{10}$
 C. $\frac{4}{10}$
 D. $\frac{6}{10}$

4. Does the number line represent the equation $\frac{4}{5} + \frac{2}{5} = \frac{6}{5}$?
 Choose True or False.



- A. True
 B. False

5. What is the sum of $\frac{5}{8} + \frac{2}{8}$?

a. Draw $\frac{1}{8}$ fraction tiles to justify your solution.

$\frac{5}{8} + \frac{2}{8}$

b. What is the sum?

6. Brandon has $\frac{6}{8}$ pound of trail mix that he puts into bags. He has already put $\frac{2}{8}$ pound of his trail mix into bags. How much more trail mix does Brandon have left to put into bags?

A. $\frac{2}{8}$ pound

B. $\frac{8}{8}$ pound

C. $\frac{6}{8}$ pound

D. $\frac{4}{8}$ pound

7. Is each fraction equation correct? Choose Correct or Not Correct for each equation.

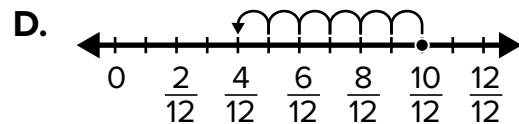
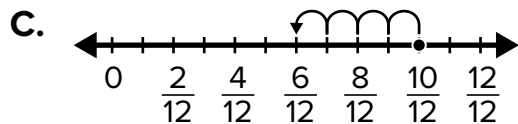
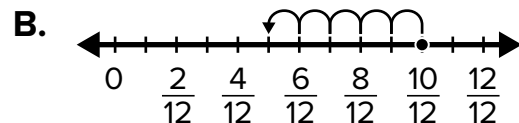
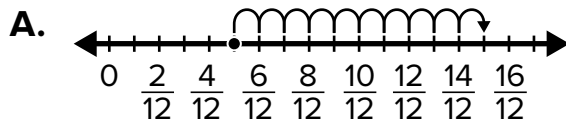
	Correct	Not Correct
$\frac{2}{3} + \frac{1}{3} = \frac{3}{3}$		
$\frac{4}{8} + \frac{2}{8} = \frac{6}{8}$		
$\frac{2}{6} + \frac{2}{6} = \frac{2}{12}$		
$\frac{7}{10} + \frac{2}{10} = \frac{9}{10}$		
$\frac{1}{5} + \frac{2}{5} = \frac{3}{10}$		

Unit 9

Unit Assessment, Form B (continued)

Name _____

8a. Which number line illustrates the difference $\frac{10}{12} - \frac{5}{12}$?



b. What is the difference $\frac{10}{12} - \frac{5}{12}$?

A. $\frac{7}{12}$

B. $\frac{15}{12}$

C. $\frac{5}{12}$

D. $\frac{2}{12}$

9. Which addition expression has a sum of $\frac{5}{6}$?

A. $\frac{4}{6} + \frac{1}{6}$

B. $\frac{5}{3} + \frac{5}{3}$

C. $\frac{2}{3} + \frac{3}{3}$

D. $\frac{5}{6} + \frac{1}{6}$

10. Match each equation to the correct solution. Not all solutions will be used.

$\frac{9}{6} - \frac{2}{6} = ?$

$\frac{2}{2} - \frac{1}{2} = ?$

$\frac{4}{5} - \frac{1}{5} = ?$

$\frac{7}{10} - \frac{3}{10} = ?$

$\frac{3}{10}$

$\frac{1}{2}$

$\frac{4}{1}$

$\frac{4}{10}$

$\frac{5}{5}$

$\frac{3}{2}$

$\frac{7}{6}$

$\frac{3}{5}$

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- 11.** Nick has $\frac{2}{5}$ of a jar filled with honey. He adds honey to the jar until $\frac{5}{5}$ of the jar is filled. Which fraction shows the amount of honey Nick adds to the jar?
- A.** $\frac{2}{5}$ of the jar **B.** $\frac{5}{5}$ of the jar
C. $\frac{4}{5}$ of the jar **D.** $\frac{3}{5}$ of the jar
- 12.** Which subtraction expressions have a difference of $\frac{4}{8}$? Choose all that apply.
- A.** $\frac{7}{8} - \frac{3}{8}$ **B.** $\frac{10}{8} - \frac{6}{8}$
C. $\frac{3}{8} - \frac{1}{8}$ **D.** $\frac{6}{8} - \frac{3}{8}$
- 13.** The fourth-grade classes held a car wash to raise money. Each class took turns washing cars.
- Ms. Aska's class washed cars for $\frac{2}{12}$ of the total time more than Ms. Wilson's class.
 - Ms. Wilson's class washed cars for $\frac{3}{12}$ of the total time.
- a.** Which fraction of the time did Ms. Aska's class wash cars?
- A.** $\frac{1}{12}$ **B.** $\frac{4}{12}$ **C.** $\frac{5}{12}$ **D.** $\frac{8}{12}$
- b.** Mr. Atchinson's class washed cars for the remaining amount of time at the car wash. What fraction of the time did his class wash cars? Show and explain your work.
- 14.** Explain how to use fraction tiles to show $\frac{8}{10} - \frac{3}{10}$.