Unit **10**

Unit Assessment, Form B

Name _____

1. Which mixed number is equivalent to the expression $\frac{8}{8} + \frac{5}{8} + \frac{5}{8} + \frac{1}{8}$?

A. $2\frac{5}{8}$

B. 2

C. $2\frac{3}{8}$

D. $1\frac{3}{8}$

2. Fatima uses $5\frac{3}{5}$ meters of string to tie her tomatoes to garden stakes. She uses $3\frac{1}{5}$ meters of string to tie her beans to garden stakes. How many meters of string does Fatima use in all?

A. 9 meters

B. 8 meters

C. $8\frac{4}{5}$ meters

D. $9\frac{1}{5}$ meters

3. What is the difference?

$3\frac{4}{6} - 1\frac{3}{6} =$ _____

4. Which addition expressions show ways to decompose $3\frac{4}{10}$? Choose all that apply.

A. $3 + \frac{4}{10}$

B. $1 + 1 + 1 + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$

C. $1 + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$

D. $1 + 2 + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$

E. $3 + 4$

5. What is the sum?

$4\frac{4}{12} + 2\frac{9}{12} =$ _____

6a. Rachel and Jonah build a sandcastle. Rachel uses $3\frac{1}{4}$ buckets of sand, and Jonah uses $3\frac{1}{4}$ buckets of sand. Which equation shows how many buckets of sand Rachel and Jonah use altogether?

A. $3\frac{1}{4} + 3\frac{1}{4} = 6\frac{2}{4}$

B. $3\frac{1}{4} + 3\frac{1}{4} = 7$

C. $3\frac{1}{4} - 3\frac{1}{4} = 0$

D. $3\frac{1}{4} - 3\frac{1}{4} = \frac{1}{4}$

b. Rachel and Jonah put a wall around their sandcastle. They use $2\frac{1}{4}$ buckets of sand for the wall. How many buckets of sand do they use for the sandcastle and the wall in all?

7. Maya is baking bread. The recipe calls for $4\frac{3}{4}$ cups of rice and whole wheat flour combined. She adds $2\frac{1}{4}$ cups of rice flour. How much whole wheat flour does she need to add?

8a. Zainab and Ciara set a goal that together they will pick $9\frac{3}{8}$ pounds of pea pods. Zainab picks $3\frac{4}{8}$ pounds of pea pods. Ciara picks $5\frac{6}{8}$ pounds of pea pods. How many pounds do they pick altogether?

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

B. $9\frac{2}{8}$ pounds

C. 8 pounds

D. 9 pounds

b. How many fewer pounds did they pick than their goal?

A. $\frac{1}{8}$ pound

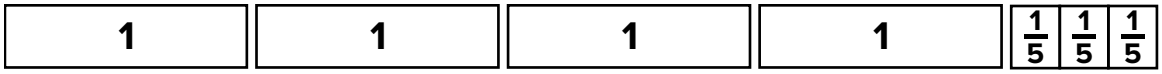
B. $\frac{2}{8}$ pound

C. $9\frac{2}{8}$ pounds

D. $1\frac{2}{8}$ pounds

Name _____

9. What is the difference? Use the representation.



$4\frac{3}{5} - 2\frac{1}{5} = ?$

A. $1\frac{2}{5}$

B. $2\frac{2}{5}$

C. $2\frac{1}{5}$

D. $2\frac{4}{5}$

10a. The art teacher has two different containers of modeling clay. One container contains $4\frac{1}{3}$ cups of modeling clay, and the other container contains $5\frac{1}{3}$ cups of modeling clay. How much modeling clay does he have altogether?

A. $9\frac{2}{3}$ cups

B. 9 cups

C. $10\frac{1}{3}$ cups

D. 10 cups

b. The art teacher puts all the modeling clay in one big container for his art class. The students use some of the modeling clay. There are $3\frac{1}{3}$ cups of modeling clay left over. How much modeling clay did the students use?

A. $6\frac{1}{3}$ cups

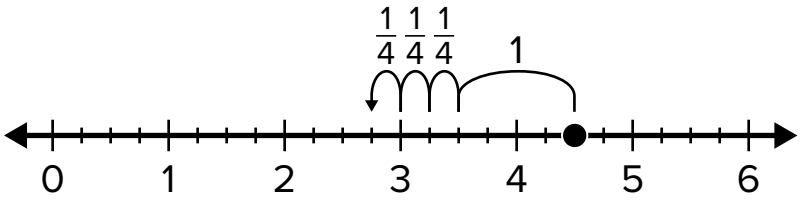
B. $7\frac{1}{3}$ cups

C. 7 cups

D. $6\frac{2}{3}$ cups

11. Hudson kayaked $3\frac{1}{3}$ miles down a river. Will kayaked $1\frac{2}{3}$ fewer miles than Hudson. How many miles did Will kayak?

12. What is the difference? Use the number line.



$4\frac{2}{4} - 1\frac{3}{4} =$ _____

13. Alyssa decomposed a mixed number to $\frac{3}{3} + \frac{3}{3} + \frac{3}{3} + \frac{1}{3}$. What mixed number did Alyssa decompose?

14. Caleb uses mango and strawberries to make a smoothie. He has $1\frac{3}{4}$ cups of mango and $2\frac{2}{4}$ cups of strawberries. How many cups of fruit does he have? Write your answer as a mixed number and explain your solution method.

15. Mariah rides her bike $5\frac{6}{8}$ miles to the park and $1\frac{7}{8}$ miles to her friend's house. How many more miles does Mariah ride her bike to the park than to her friend's house? Write your answer as a mixed number and explain your solution method.