

Name: _____



PRACTICE



TUTORIAL

4-6 Additional Practice

Scan for
Multimedia



Leveled Practice In 1–4, fill in the boxes to add the expressions.

1. $(3z + 1) + (5 + 7z)$

$$= (3z + \boxed{}) + (1 + \boxed{})$$

$$= \boxed{}z + \boxed{}$$

2. $(10x - 4) + (-7 + x)$

$$= (10x + \boxed{}) + (-4 + \boxed{})$$

$$= \boxed{}x + \boxed{}$$

3. $(8b + 12) + (3n + 6) + (9b - 4)$

$$= (8b + \boxed{}b) + \boxed{}n$$

$$+ (12 + \boxed{} + \boxed{})$$

$$= \boxed{}b + \boxed{}n + \boxed{}$$

4. $(\frac{1}{5}x - 4 + 2y) + (\frac{2}{5}x + 5 - 4y)$

$$= (\frac{1}{5}x + \boxed{}) + (-4 + \boxed{}) + (2y + \boxed{})$$

$$= \boxed{}x + \boxed{} + \boxed{}y$$

5. Find the sum: $(\frac{3}{7}m - 3 + 4n) + (\frac{2}{7}m - 2n + 6)$

6. Find the sum: $(3.2 + 4x) + (18.25 + 6x)$

7. Find the sum: $(6a + 6) + (3x - 2) + (2a + 4)$

8. Combine like terms.

$$(-2z - 3) + (4c + 6y) + (7 + 3c)$$

9. The width of a rectangle, in feet, is represented by $(3x - 1.5)$. The length of the rectangle, in feet, is represented by $(1.25x + 3)$. Find the perimeter of the rectangle.

10. Elijah opened a checking account with \$125 and deposits \$25 into it every week. He opened another checking account with \$225 and deposits \$35 into it every week. Write a simplified expression to represent how much he will have in both accounts after w weeks.



11. Maria has a fence around her triangular garden. The first side is $(y + 4)$ feet long. The second side is 2 feet longer than the first side. The third side is 3 feet less than 2 times the first side. Write a simplified expression to represent the perimeter of the garden.

12. Use the expression $(3t + 4) + (4t + 3)$.

- a. Find the sum.
- b. Explain how you know which terms can be combined to find the sum.

13. **Higher Order Thinking** The expression $3.5d + 5$ represents the number of miles Erin ran last week when she ran 5 miles on Sunday and 3.5 miles each day after Sunday. The expression $2.5d + 3$ represents the number of miles Luis ran last week when he ran 3 miles on Sunday and 2.5 miles each day after Sunday.

- a. Write an expression that can be used to determine the total amount Erin and Luis ran last week.
- b. What is the total number of miles that Erin and Luis ran through Thursday of last week?

© Assessment Practice

14. A grocery store conducted a survey to determine which type of fruit its customers prefer. The table indicates the number of customers who prefer each type of fruit.

PART A

Write an expression in the table for each type of fruit to represent the number of customers who prefer that fruit if n customers were surveyed.

Fruit	Bananas	Apples	Oranges
Word Description	30 more than two fifths of the customers	10 fewer than one fifth of the customers	5 more than one fifth of the customers
Expression	<input type="text"/>	<input type="text"/>	<input type="text"/>

PART B

Write a simplified expression to represent all the customers who prefer either bananas or oranges.

