

Name: _____



PRACTICE



TUTORIAL

4-2 Additional Practice

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Leveled Practice In 1–3, write an equivalent expression.

1. $8(y - 7)$

2. $-2x + 7$

3. $\frac{3}{5}x + \frac{2}{5} + \frac{3}{5}x$

4. Write an equivalent expression for $h + 5 + 3 - 2h$.

5. Write an expression that is equivalent to $\frac{2}{8}b + (\frac{3}{8}b + \frac{4}{5})$.

6. Write two expressions that are equivalent to $4n - 5$.

7. Write an expression that is equivalent to $5(\frac{3}{2}r - 8)$. State the property that justifies your answer.

8. Andre wrote the expression $15(x - 3)$ to represent the relationship shown in the table.

Write two other expressions that represent the relationship shown in the table.

x	Value of Expression
0	-45
3	0
5	30
8	75



9. Write an expression that is equivalent to $2.5x + (-5y) - 2.5$.

10. Use the expression $-\frac{3}{7}g + 10$.

a. Jake said an equivalent expression is $-10 + \frac{3}{7}g$. What was the likely error made by Jake?

b. Write a correct equivalent expression.

11. Which shows an expression equivalent to $6x + 8 - 4x$?

- Ⓐ $2x - 8$
- Ⓑ $10x + 8$
- Ⓒ $2x + 8$
- Ⓓ $10x - 8$

12. **Higher Order Thinking** The bakery manager at the grocery store marks down the price of bread by 18%. Shanaya purchases 5 loaves of bread. The expression $5(b - 0.18b)$ represents the price of 5 loaves of bread. Write an equivalent expression and write the property that justifies your answer.

Assessment Practice

13. Which of the following expressions is equivalent to $-\frac{2}{3}x + 2$? Select all that apply.

- $-2 - \frac{2}{3}x$
- $2 - \frac{2}{3}x$
- $-1 - \frac{2}{3}x + 1$
- $-\frac{1}{3}x - 4 + 2$
- $-\frac{2}{3}x - 3 + 5$

14. Diego plans to build an extension to his rectangular model bridge. Let x represent the increase, in centimeters, of the model's length. The expression $\frac{1}{2}(x + 8)$ represents the area of the model bridge, where $\frac{1}{2}$ is the width, in centimeters, and $(x + 8)$ represents the extended length, in centimeters, of the model. Which expression is equivalent to $\frac{1}{2}(x + 8)$?

- Ⓐ $4x + 8$
- Ⓑ $\frac{1}{2}x + 4$
- Ⓒ $\frac{1}{2}x + 8$
- Ⓓ $2x + 4$

