



NTID

Mrs. Lafferty

8th Grade

Week: 4

Lesson 1 Skills Practice**Algebraic Expressions**Evaluate each expression if $w = 2$, $x = 3$, $y = 5$, and $z = 6$.

1. $2w$

2. $y + 5$

3. $9 - z$

4. $x + w$

5. $3 + 4z$

6. $6y - 5$

7. y^2

8. $y - x$

9. $\frac{z}{2}$

Evaluate each expression if $m = 3$, $n = 7$, and $p = 9$.

10. $m + n$

11. $12 - 3m$

12. $5p$

13. $3.3p$

14. $3.3p + 2$

15. $2p + 3.3$

16. $20 + 2n$

17. $20 - 2n$

18. $\frac{n}{7}$

19. n^2

20. $6m^2$

21. $\frac{p^2}{3}$

22. $1.1 + n$

23. $p - 8.1$

24. $3.6m$

25. $3n - 2m$

26. $3m - n$

27. $2.1n + p$

28. $\frac{m^2}{p}$

29. $\frac{2.5m + 2.5}{5}$

30. $\frac{(n + 2)^2}{3}$

Day 16

Lesson 2 Skills Practice**Sequences**

Describe the relationship between the terms in each arithmetic sequence.

- | | |
|----------------------------|-----------------------------|
| 1. 3, 6, 9, 12... | 2. 1, 3, 5, 7, ... |
| 3. 1, 2, 3, 4, ... | 4. 0, 7, 14, 21, ... |
| 5. 2, 5, 8, 11, ... | 6. 5, 10, 15, 20, ... |
| 7. 0.3, 0.6, 0.9, 1.2, ... | 8. 1, 10, 19, 28, ... |
| 9. 6, 12, 18, 24, ... | 10. 0.5, 2.5, 4.5, 6.5, ... |
| 11. 3, 7, 11, 15, ... | 12. 0, 4.5, 9, 13.5, ... |
| 13. 11, 22, 33, 44, ... | 14. 16, 21, 26, 31, ... |

Give the next three terms in each sequence.

- | | |
|-----------------------------|-----------------------------|
| 15. 3, 6, 9, 12, ... | 16. 18, 21, 24, 27, ... |
| 17. 7, 10, 13, 16, ... | 18. 4, 8, 12, 16, ... |
| 19. 0, 7, 14, 21, ... | 20. 7, 12, 17, 22, ... |
| 21. 5, 7, 9, 11, ... | 22. 5, 15, 25, 35, ... |
| 23. 21, 42, 63, 84, ... | 24. 1.1, 2.2, 3.3, 4.4, ... |
| 25. 0.5, 1.0, 1.5, 2.0, ... | 26. 1.7, 1.9, 2.1, 2.3, ... |
| 27. 0.5, 1.5, 2.5, 3.5, ... | 28. 0.1, 0.2, 0.3, 0.4, ... |

Lesson 4 Skills Practice***The Distributive Property***

Use the Distributive Property to evaluate each expression.

1. $3(2 + 8)$

2. $(-3 + 4)2$

3. $-5(4 - 2)$

4. $(12 + 13)(-2)$

5. $8(10 - 4)$

6. $(-4 + -7)(-3)$

7. $(-7 + 3)4$

8. $-1(18 - 11)$

Use the Distributive Property to rewrite each expression.

9. $6(t + 2)$

10. $-5(4 + x)$

11. $(5 + v)(-3)$

12. $(w - 2)4$

13. $-7(8n - m)$

14. $(6 + d)(-6)$

15. $(4c + 2d)(-2)$

16. $-2(3f - 5g)$

17. **TRAIN RIDE** Mr. and Mrs. Caputo are taking their family into the city on the train. The cost per person is \$5.80. If there are 4 members in their family, how much does the train trip cost? Justify your answer by using the Distributive Property.

18. **CAMPING** Chantee went camping over the weekend. The cost for the site was \$16.95 a night for three nights. How much did it cost her to camp? Justify your answer by using the Distributive Property.

Lesson 5 Skills Practice***Simplify Algebraic Expressions***

Identify the terms, like terms, coefficients, and constants in each expression.

1. $4e + 7e + 5$

2. $5a + 2 - 7$

3. $-3h - 2h + 6h + 9$

4. $4 - 4y + y - 3$

5. $7 - 5y + 2 + 1$

6. $2m + 3m - m$

7. $9k + 7 - k + 4$

8. $-8p + 6p - 2$

Write each expression in simplest form.

9. $3t + 6t$

10. $4r + r$

11. $7f - 2f$

12. $9a - 8a$

13. $5c + 8c$

14. $2g - 5g$

15. $8k + 3 + 4k$

16. $7m - 5m - 6$

17. $9 - 6x + 5$

18. $7p - 1 - 9p + 5$

19. $-b - 3b + 8b + 4$

20. $5h - 6 - 8 + 7h$

21. $8b + 6 - 8b + 1$

22. $t - 5 - 2t + 5$

23. $4w + 5w + w$

24. $6m - 7 + 2m + 7$

25. $5f - 7f + f$

26. $12y - 8 + 4y + y$

Write an expression in simplest form that represents the total amount in each situation.

27. **RUNNING** You run m miles on Friday, the same amount on Saturday, and 4 miles on Sunday.

28. **READING** Hendrick read b books in January, twice that amount in February, and 1 book in March.

Lesson 5 Extra Practice

Day 20

Simplify Algebraic Expressions**Identify the terms, like terms, coefficients, and constants in each expression.**

1. $8b + 7b - 4 - 6b$

2. $9 + 8z - 3 + 5z$

3. $11q - 5 + 2q - 7$

4. $a + 1 + 2a + 8a$

5. $1 - 2c - 3c + 100$

6. $14j - 6 + 8j - 5$

Write each expression in simplest form.

7. $3x + 2x$

8. $6x - 3x$

9. $2a - 5a$

10. $5x - 6x$

11. $8a - 3a$

12. $a - 4a$

13. $3a + 2a - 6$

14. $6x + 2x - 3$

15. $5a - 3 + 2a$

16. $3x + 7 - 5x$

17. $x - 3 + 5x$

18. $6x - 3x - 2$

19. $a - 2a + 5$

20. $6x - 2 + 7x$

21. $5a - 7a + 2$

22. $4a + 2 - 7a - 5$

23. $3a - 2 + 5a - 7$

24. $5x - 3x + 2 - 5$