NAME		DATE
	dy for Algebra Order of Operations	independent practice
Simplify each expression.		
1. -12 - 5 + 7(-3)	2. 9(–3) – –5 – 3	3. 7(3 – 9) + 12 ÷ (–4)
4. 24 ÷ 6 – 2(–1 – 7)	5. -3 ² + 3 ³ + (-3)	6. $-2 + 2^3 - 2^2$
7. $4^3 - 5(3 + 7 - 1)$	8. 3 2(5 + 3) - 7 ÷ (-3)	9. $-\frac{74}{2} + \frac{36}{4} - \frac{19}{19}$
10. $\frac{22}{11} + \frac{10}{5} - \frac{15}{3}$	11. $\frac{\sqrt{1^2 - 4 \cdot 1 \cdot (-6)}}{2 \cdot 1}$	12. $\frac{\sqrt{6^2 - 4 \cdot 1 \cdot 9}}{2 \cdot 9}$
13 . $\frac{-26 + 4 \cdot (-6)}{5^2}$	14. $\frac{-5+7\cdot 3\cdot 5}{10^2}$	15. (81 ÷ 3 ²) + (7 ² – 9)
16. (−8 − 17) ² ÷ 5 − 3	17. (−4 − 9) ² ÷ (−13) + (5 + 8) 18. $9(3-5) \div 3^2$
19. $(-5 + 2)^2 \div (7 + 2)$	20. $(-7 + 2)^2 \div 5 + 2$	21. $-5^2 - (-2 - 3)^2$
22. $12 - 4(6) - 12 \div 2^2$	23. 7 3 - 5(2 + 1) - 9 - 47	24. $ 3(-5) ^2 + 3(-4)^2$
25. 3 -7 - 4 ÷ 3 + √49	26. −120 ÷ 30 ÷ 4 + 7 − 15 ·	$\div 5$ 27. $3^3 + -9 - 3 + 18 \div 3$
28. (-4) ² - 3[2 -3 - 5] + 7	29. [(-2 - 6) ² ÷ 2] - (5)(-2)	30. 75 ÷ 3 + 7(2 -4 + 2) ÷ 10

DIGITAL

Journal

- 1. What does "Please Excuse My Dear Aunt Sally" have to do with the order of operations?
- 2. Show an example in which addition is done before multiplication.
- **3.** How do you know whether to perform addition or subtraction first? What about multiplication or division?
- **4.** What are "grouping symbols" and what do they indicate in the order of operations? How do you evaluate an expression that has grouping symbols within other grouping symbols?
- 5. Why is it necessary to have an order of operations?

Cumulative Review

Simplify, if possible.

1 . $\frac{-36}{9}$	2. 12(–6)	3. 52 + (–71)	4. $\frac{-2}{3} + \frac{1}{5}$	5. –4 ²
6. (–4) ²	7. −√49	8 . √√−8	9 . $\sqrt{-16}$	10 . √3⁄64

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Module 1 Lesson 5

Independent Practice