

Blizzard Bag #1

Algebra I

Name _____

CHAPTER
6**Cumulative Review***For use after Chapter 6***Evaluate the expression.** (*Lessons 1.1, 1.2*)

1. $11 + 8 \cdot 3^2 - 8$

2. $\frac{2}{3}[(5 + 2)^2 - 13]$

3. $5k^2 - 7k$ when $k = 3$

Check whether the given number is a solution of the equation or inequality. (*Lesson 1.4*)

4. $7x - 11 = 17$; 4

5. $9y + 3 < 13$; 2

6. $5z - 9 \geq 7z - 11$; -2

Find the sum, difference, product, or quotient. (*Lessons 2.1–2.6*)

7. $5 + (-13)$

8. $-17 + (-21)$

9. $15 - (-12)$

10. $-7(-11)$

11. $-\frac{1}{2}(15)(-8)$

12. $\frac{72}{-6}$

Evaluate the expression. (*Lesson 2.7*)

13. $\sqrt{169}$

14. $-\sqrt{9}$

15. $\pm\sqrt{256}$

16. $\pm\sqrt{0.04}$

Solve the equation, if possible. (*Lessons 3.1–3.4*)

17. $x + 7 = 19$

18. $23 - y = 14$

19. $7p - 11 = 10$

20. $\frac{q}{4} + 8 = 13$

21. $15j + 7j = 11$

22. $14m + 7 - 8m = -17$

23. $-3.1t + 4.3 = -1.9t + 3.7$

24. $3(4k - 2) = 16k - 32$

25. $\frac{1}{3}(9g - 6) = \frac{3}{5}(5g + 15)$

26. **Reading** A student can read 4 pages of a book in 5 minutes. How many pages can the student read in 60 minutes? (*Lesson 3.6*)**Use the percent equation to answer the question.** (*Lesson 3.7*)

27. What percent of 38 is 15.2?

28. What number is 35% of 150?

29. At your school, 74% of students bought their lunch at the cafeteria. There are 1250 students in the school. How many students bought their lunch?

Solve the literal equation. (*Lesson 3.8*)30. Solve $ax + by = c$ for a .31. Solve $ax - \frac{y}{b} = c$ for y .**Plot the point in a coordinate plane. Describe the location of the point.** (*Lesson 4.1*)

32. $A(3, 6)$

33. $B(-2, -4)$

34. $C(0, -3)$

