

CHAPTERS
1–6**Cumulative Test**

For use after Chapters 1–6

Evaluate the expression.

1. $7 + 6^2 \div 3$

2. $4 \cdot 5^2 - 18$

3. $\frac{2}{3}[(5 + 3)^2 - 31]$

4. $9x^2 - 4; x = 3$

5. Tell whether the following statement is
- always*
- ,
- sometimes*
- , or
- never*
- true. For a given whole number
- n
- , the product
- $4n$
- is divisible by 8.

Write an algebraic expression, an equation, or an inequality.

6. The sum of 5 times a number x and 17
7. The difference of 21 and the product of 5 and a number y is less than 7.
8. The quotient of 75 and the quantity of a number z and 2 is 25.
9. A family goes to an amusement park. Adult tickets cost \$21. Children under 10 years of age pay \$15. Write an algebraic expression for the total cost. Then find the total cost of 4 adult tickets and 3 children's tickets.
10. Order the numbers from least to greatest: -1.6 , $\sqrt{4}$, 0 , 3.1 , $-\sqrt{5}$.
11. Let U be the set of whole numbers from 0 to 10. Find $A \cap B$ for $A = \{2, 4, 6, 8\}$ and $B = \{3, 4, 5, 6\}$.

Find the sum, difference, product, or quotient.

12. $-11 + (-7)$

13. $27 + (-32)$

14. $17 - (-6)$

15. $-\frac{2}{3} - \frac{1}{12}$

16. $15(-6)$

17. $3(-7)(-2)$

18. $-21 \div (-7)$

19. $-14 \div \frac{2}{7}$

20. $\frac{3}{5} \div (-30)$

Evaluate the expression.

21. $-5x + 14 - 2x^2$ when $x = 3$

22. $11 + \frac{18}{y}$ when $y = 3$

23. $7(3w - 5)$ when $w = 4$

24. $15 + |1 - k|$ when $k = 8$

Simplify the expression.

25. $-3(-x + 6)$

26. $7(3y - 4) - 18y$

27. $\frac{-8w + 12}{-4}$

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
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