

Lesson 3 Homework Practice

Algebra: Variables and Expressions

Evaluate each expression if $m = 6$ and $n = 12$.

1. $m + 5$

2. $n - 7$

3. $m \cdot 4$

4. $m + n$

5. $n - m$

6. $12 \div n$

7. $9 \cdot n$

8. $n \div m$

9. $2m + 5$

10. $4m - 17$

11. $36 - 6m$

12. $3n + 8$

Evaluate each expression if $a = 9$, $b = 3$, and $c = \frac{1}{3}$.

13. $a^2 \div 3$

14. $15b + a^2$

15. $b^2 + 4 \cdot 6$

16. $a^2 - 2b^2$

17. $a^2 + 30 - 18$

18. $b^2 + 5a - 20$

19. $b^3 + c$

20. $19 + 6a \div 2$

21. $4b^2 \cdot 3$

22. $3c \div (2b^2)$

23. $a^2 - (3c)$

24. $ac \div (2b)$

- 25. ANIMALS** A Gentoo penguin can swim at a rate of 17 miles per hour. How many miles can a penguin swim in 4 hours? Use the expression rt , where r represents rate and t represents time.

- 26. CLOTHING** A company charges \$6 to make a pattern for an order of T-shirts and \$11 for each T-shirt it produces from the pattern. The expression $\$11n + \6 represents the cost of n T-shirts with the same pattern. Find the total cost for 5 T-shirts with the same pattern.