

Chapter 1 Quiz

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Section 1.1 - Variables and Expressions

1. Write a verbal expression for each algebraic expression:

(a) $n + 4$

Answer: Four more than a number

(b) $6n^2$

Answer: 6 times a number squared

2. Write an algebraic expression for each verbal expression

(a) six less than a number

Answer: $n - 6$

(b) the difference of a number squared and 8

Answer: $n^2 - 8$

Section 1.2 - Order of Operations

1. Evaluate

(a) $(8 - 4) * 2$

Answer: 8

(b) $24/3 * 2 - 3^2$

Answer: 7

Section 1.3 - Properties of Numbers

1. Name two properties that can help you solve algebraic equations and evaluate mathematical expressions.

(a) *Answer:* Associative Property

(b) *Answer:* Communicative Property

Section 1.4 - Distributive Property

1. Use the distributive property to rewrite. Then evaluate or simplify

(a) $6(8 + 10(2 + 3))$

Answer: 348

(b) $2(a^2 + 3ab) - 5ab$

Answer: $2a^2 + ab$