

1.13 Translating Algebraic Equations 3

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Write the sentence as an equation. Use x to represent "a number."

- 1) A number added to -6 amounts to -33. 1) _____
 A) $-6 - 33 = x$ B) $-6 + x = -33$ C) $x - 33 = -6$ D) $x = -6 + 33$
- 2) Seven times the difference of 15 and a number equals -56. 2) _____
 A) $7(x - 15) = -56$ B) $7(15) - x = -56$ C) $7x - 15 = -56$ D) $7(15 - x) = -56$
- 3) Seven subtracted from three times a number is 44. 3) _____
 A) $7(3 - x) = 44$ B) $3x - 7 = 44$ C) $3(x - 7) = 44$ D) $7 - 3x = 44$
- 4) Twice the sum of a number and -38 amounts to 20. 4) _____
 A) $2 + x + (-38) = 20$ B) $x + 2(-38) = 20$
 C) $2x + (-38) = 20$ D) $2[x + (-38)] = 20$
- 5) Six subtracted from a number equals 60. 5) _____
 A) $6 - x = 60$ B) $x - 6 = 60$ C) $60 - 6 = x$ D) $6 + x = 60$
- 6) The quotient of 20 and a number yields 10. 6) _____
 A) $\frac{20}{x} = 10$ B) $20x = 10$ C) $20 - x = 10$ D) $\frac{x}{20} = 10$
- 7) Three times a number equals 18. 7) _____
 A) $3 + x = 18$ B) $\frac{3}{x} = 18$ C) $x^3 = 18$ D) $3x = 18$

Fill in the blank with one of the words or phrases listed below.

variable	addition	constant	algebraic expression	equation
terms	simplified	multiplication	evaluating the expression	solution
like	combined	numerical coefficient	distributive	

- 8) The number factor of a variable term is called the _____. 8) _____
 A) variable B) constant
 C) algebraic expression D) numerical coefficient
- 9) Terms that are exactly the same, except that they may have different numerical coefficients, are called _____ terms. 9) _____
 A) variable B) combined C) constant D) like
- 10) The addends on an algebraic expression are called the _____ of the expression. 10) _____
 A) multiplication B) solution C) terms D) addition
- 11) A term that is a number only is called a(n) _____. 11) _____
 A) numerical coefficient B) variable
 C) solution D) constant

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- 12) A letter used to represent a number is called a(n) _____ . 12) _____
A) solution B) numerical coefficient
C) constant D) variable

Solve.

- 13) Alex sold his used lawn tractor and accessories for \$210. If he received twice as much money for the lawn tractor as he did for the accessories, find how much money he received for the lawn tractor. 13) _____
A) \$140 B) \$80 C) \$420 D) \$70

- 14) The product of 5 and a number is the same as 28 less twice that same number. Find the number. 14) _____
A) 4 B) 14 C) -14 D) -4

- 15) A number less 22 is -8. Find the number. 15) _____
A) 14 B) 30 C) -30 D) -14

Answer Key

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- 1) B
- 2) D
- 3) B
- 4) D
- 5) B
- 6) A
- 7) D
- 8) D
- 9) D
- 10) C
- 11) D
- 12) D
- 13) A
- 14) A
- 15) A