

2.12 Solving Linear Equations One Variable 2

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

Write the sentence as an equation.

1) The product of -2 and -18 equals 36.

A) $-2 - 18 = 36$

B) $-2(-18) = 36$

C) $\frac{-2}{-18} = 36$

D) $2(18) = 36$

1) _____

2) The quotient of -63 and 7 gives -9.

A) $-63 + 7 = -9$

B) $-63(7) = -9$

C) $-63 - 7 = -9$

D) $\frac{-63}{7} = -9$

2) _____

3) The sum of -43 and 37 amounts to -6.

A) $-43 - 37 = -6$

B) $43 + 37 = -6$

C) $-43 + 37 = -6$

D) $43 + 37 = 6$

3) _____

4) The difference of -21 and 20 is -41.

A) $21 - 20 = 41$

B) $-21 - 20 = 41$

C) $21 + 20 = 41$

D) $-21 - 20 = -41$

4) _____

Solve the equation.

5) $24 - 9x = -3x$

A) -4

B) 4

C) 144

D) -144

5) _____

6) $4(5x + 2) + 11 = 18x + 3$

A) -8

B) -32

C) 8

D) -16

6) _____

7) $3x - 8x = -27 - 13$

A) -5

B) 8

C) 5

D) -8

7) _____

8) $-8x - 24 = -6x - 6$

A) -12

B) -9

C) 12

D) 9

8) _____

9) $5 + 30 = x + 6$

A) 29

B) -41

C) -29

D) 41

9) _____

10) $\frac{n}{-5} = 4 - (-9)$

A) -25

B) 25

C) 65

D) -65

10) _____

11) $|-16| + 6^2 = 20y - |-38| - 19y$

A) -14

B) 14

C) 90

D) -90

11) _____

12) $8x - 1 = 9(x + 6)$

A) 55

B) -55

C) -53

D) 53

12) _____

13) $\frac{x}{2} + 39 = 0$

A) 78

B) $\frac{39}{2}$

C) $-\frac{39}{2}$

D) -78

13) _____

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- 14) $\frac{y}{12} = (-8)^2 - |25| + (-5)^2$ 14) _____
 A) 768 B) 1368 C) -168 D) -768
- 15) $19 = 9x + 10$ 15) _____
 A) 4 B) 1 C) 7 D) 0
- 16) $3y + 7 = 2y - 8$ 16) _____
 A) -16 B) -1 C) -15 D) -14
- 17) $3^3 = x + 4^4$ 17) _____
 A) -283 B) 283 C) -229 D) 229
- 18) $2(y + 2) = 3(y - 5)$ 18) _____
 A) -19 B) -11 C) 19 D) 11
- 19) $5(2x - 2) = 8x$ 19) _____
 A) -5 B) 1 C) 5 D) -1
- 20) $5(x + 5) = 20$ 20) _____
 A) 9 B) -9 C) 1 D) -1
- 21) $-8 + 22 = 15x - 2 - 14x$ 21) _____
 A) 12 B) 28 C) -12 D) 16
- 22) $x - 6 = -2 - 24$ 22) _____
 A) 20 B) -32 C) 32 D) -20
- 23) $2(3x - 4) = 10x$ 23) _____
 A) -1 B) -2 C) 1 D) 2
- 24) $\frac{x}{-13} = 3^5 - 5^6$ 24) _____
 A) 199,966 B) -199,966 C) 39,572 D) -39,572

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

- 25) Five subtracted from nine times a number is equal to 67. 25) _____
 A) $9x - 5 = 67$ B) $9(x - 5) = 67$ C) $5 - 9x = 67$ D) $5(9 - x) = 67$
- 26) Four subtracted from a number is equal to 62. 26) _____
 A) $4 + x = 62$ B) $4 - x = 62$ C) $x - 4 = 62$ D) $62 - 4 = x$
- 27) The quotient of 10 and a number equals 5. 27) _____
 A) $\frac{x}{10} = 5$ B) $10 - x = 5$ C) $10x = 5$ D) $\frac{10}{x} = 5$

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28) A number added to -7 is equal to -15.

A) $x - 15 = -7$

B) $-7 + x = -15$

C) $x = -7 + 15$

D) $-7 - 15 = x$

28) _____

Write the phrase as a variable expression. Use x to represent "a number."

29) the difference of Seven and a number

A) $x - 7$

B) $7x$

C) $\frac{7}{x}$

D) $7 - x$

29) _____

30) Twice a number, decreased by 30

A) $x - 60$

B) $2(x - 30)$

C) $2 + x - 30$

D) $2x - 30$

30) _____

31) The quotient of 41 and the product of a number and -7

A) $-287x$

B) $\frac{41}{-7x}$

C) $\frac{-7x}{41}$

D) $\frac{41}{x} - 7$

31) _____

32) The quotient of 3 and a number, added to -23

A) $-23 + \frac{3}{x}$

B) $3 + x + (-23)$

C) $-23 + \frac{x}{3}$

D) $\frac{3}{x + (-23)}$

32) _____

Solve.

33) Jordan sold his used lawn tractor and accessories for \$980. If he received nine times as much money for the lawn tractor as he did for the accessories, find how much money he received for the lawn tractor.

A) \$108

B) \$882

C) \$8820

D) \$98

33) _____

34) The product of a number and -6 amounts to five times the sum of that number and 33. Find the number.

A) -15

B) -6

C) 6

D) 15

34) _____

35) The sum of 3, 4, and a number amounts to 14. Find the number.

A) 7

B) 21

C) 15

D) 13

35) _____

36) The product of 11 and a number equals 99. Find the number.

A) 10

B) 88

C) 9

D) 1089

36) _____

Answer Key

Testname: 2.12 SOLVING LINEAR EQUATIONS ONE VARIABLE 2

- 1) B
- 2) D
- 3) C
- 4) D
- 5) B
- 6) A
- 7) B
- 8) B
- 9) A
- 10) D
- 11) C
- 12) B
- 13) D
- 14) A
- 15) B
- 16) C
- 17) C
- 18) C
- 19) C
- 20) D
- 21) D
- 22) D
- 23) B
- 24) A
- 25) A
- 26) C
- 27) D
- 28) B
- 29) D
- 30) D
- 31) B
- 32) A
- 33) B
- 34) A
- 35) A
- 36) C