

Writing Equations

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Write each as an equation.

1) n plus 11 is 35

- A) $\frac{n}{2} = 35$ B) $11^3 = 35$
 C) $n + 11 = 35$ D) $n \cdot 11 = 35$

3) x increased by 10 is 20

- A) $x + 10 = 20$ B) $2 \cdot 10 = 20$
 C) $10 - x = 20$ D) $x^2 < 20$

5) y minus 8 is 18

- A) $8 - y = 18$ B) $y^8 = 18$
 C) $8^2 = 18$ D) $y - 8 = 18$

7) the product of x and 11 is equal to 31

- A) $x \cdot 11 = 31$ B) $x + 11 = 31$
 C) $\frac{11}{x} = 31$ D) $x^{11} = 31$

9) m cubed is equal to 42

- A) $m^3 = 42$ B) $3m = 42$
 C) $\frac{3}{m} = 42$ D) $m + 3 = 42$

11) x divided by 4 is equal to 41

- A) $4x = 41$ B) $\frac{4}{x} = 41$
 C) $\frac{x}{4} = 41$ D) $x^3 = 41$

13) half of x is equal to 5

- A) $2^2 \leq 5$ B) $x^3 = 5$
 C) $\frac{2}{2} = 5$ D) $\frac{x}{2} = 5$

15) the product of t and 7 is 32

- A) $\frac{7}{t} = 32$ B) $t \cdot 7 = 32$
 C) $\frac{t}{7} = 32$ D) $7^t = 32$

2) n divided by 3 is 41

- A) $\frac{3}{n} = 41$ B) $\frac{n}{3} = 41$
 C) $3^3 \leq 41$ D) $n - 3 = 41$

4) 16 less than d is 27

- A) $16 - d \leq 27$ B) $d - 16 = 27$
 C) $16 - d = 27$ D) $\frac{d}{16} = 27$

6) n minus 19 is equal to 50

- A) $\frac{n}{19} = 50$ B) $n + 19 = 50$
 C) $n - 19 = 50$ D) $19^3 = 50$

8) n increased by 5 is equal to 30

- A) $\frac{5}{n} = 30$ B) $n^2 = 30$
 C) $5^3 = 30$ D) $n + 5 = 30$

10) x decreased by 4 is 17

- A) $x^3 = 17$ B) $x \cdot 4 = 17$
 C) $4 - x = 17$ D) $x - 4 = 17$

12) n increased by 6 is 19

- A) $n + 6 = 19$ B) $n^3 = 19$
 C) $\frac{n}{2} = 19$ D) $2 \cdot 6 = 19$

14) b times 7 is equal to 9

- A) $7^2 = 9$ B) $b \cdot 7 = 9$
 C) $7^b = 9$ D) $7^3 = 9$

16) 24 less than y is 42

- A) $24 - y \leq 42$ B) $y - 24 = 42$
 C) $y \cdot 24 = 42$ D) $y^{24} = 42$

17) x times 12 is 32

- A) $12^2 = 32$ B) $12 - x = 32$
C) $x + 12 = 32$ D) $x \cdot 12 = 32$

19) n decreased by 23 is 37

- A) $2n = 37$ B) $n + 23 = 37$
C) $23 - n = 37$ D) $n - 23 = 37$

21) k divided by 8 is equal to 9

- A) $8 + k = 9$ B) $8^2 = 9$
C) $\frac{k}{8} = 9$ D) $8 - k = 9$

23) x times 9 is equal to 9

- A) $9^2 = 9$ B) $\frac{x}{9} = 9$
C) $\frac{9}{2} = 9$ D) $x \cdot 9 = 9$

25) 15 to the n is 42

- A) $\frac{n}{2} = 42$ B) $15 - n = 42$
C) $15^n = 42$ D) $15n \geq 42$

27) $u \cdot 7 = 49$

- A) u times 7 is 49
B) the sum of u and 7 is 49
C) u more than 7 is 49
D) u cubed is 49

29) $n + 10 = 45$

- A) n divided by 10 is 45
B) n increased by 10 is 45
C) twice 10 is 45
D) 10 cubed is 45

31) $2v = 37$

- A) twice v is equal to 37
B) the difference of v and 2 is equal to 37
C) 2 decreased by v is equal to 37
D) 2 minus v is equal to 37

18) n squared is 23

- A) $2n = 23$ B) $n^2 = 23$
C) $\frac{n}{2} = 23$ D) $2^2 = 23$

20) 20 less than n is equal to 43

- A) $n + 20 = 43$ B) $n - 20 = 43$
C) $20 - n = 43$ D) $20 - n > 43$

22) n plus 6 is 23

- A) $n + 6 = 23$ B) $\frac{6}{n} = 23$
C) $n - 6 \leq 23$ D) $6 - n = 23$

24) 2 to the a is equal to 46

- A) $a + 2 = 46$ B) $2^a = 46$
C) $a^2 = 46$ D) $a + 2 \leq 46$

26) $y - 21 = 41$

- A) y to the 21th is 41
B) the difference of y and 21 is 41
C) y increased by 21 is 41
D) the quotient of y and 21 is 41

28) $\frac{k}{2} = 25$

- A) 2 plus k is equal to 25
B) half of 2 is equal to 25
C) half of k is equal to 25
D) k to the 2nd is equal to 25

30) $x^4 = 26$

- A) the difference of x and 4 is equal to 26
B) the 4th power of x is equal to 26
C) the x power of 4 is equal to 26
D) x increased by 4 is equal to 26

32) $5^k = 11$

- A) 5 times k is equal to 11
B) the 5th power of k is equal to 11
C) 5 decreased by k is equal to 11
D) the k power of 5 is equal to 11

33) $n \cdot 11 = 48$

- A) 11 plus n is 48
- B) the n power of 11 is 48
- C) n times 11 is 48
- D) n squared is 48

35) $w - 7 = 27$

- A) the w power of 7 is equal to 27
- B) the difference of w and 7 is equal to 27
- C) 7 plus w is equal to 27
- D) the 7th power of w is equal to 27

37) $\frac{p}{8} = 28$

- A) p increased by 8 is equal to 28
- B) the sum of 8 and p is equal to 28
- C) the product of 8 and p is equal to 28
- D) the quotient of p and 8 is equal to 28

39) $p + 9 = 14$

- A) the 9th power of p is 14
- B) 9 cubed is 14
- C) 9 divided by p is 14
- D) the sum of p and 9 is 14

41) $x - 14 = 24$

- A) the sum of 14 and x is equal to 24
- B) the 14th power of x is equal to 24
- C) 14 minus x is equal to 24
- D) x minus 14 is equal to 24

43) $x - 17 = 8$

- A) 17 times x is equal to 8
- B) the quotient of 17 and x is equal to 8
- C) x minus 17 is equal to 8
- D) 17 minus x is equal to 8

45) $x + 10 = 36$

- A) the quotient of 10 and x is 36
- B) 10 to the x is 36
- C) 10 squared is 36
- D) the sum of x and 10 is 36

34) $\frac{p}{5} = 10$

- A) 5 cubed is equal to 10
- B) the quotient of p and 5 is equal to 10
- C) the difference of p and 5 is equal to 10
- D) the quotient of 5 and p is equal to 10

36) $c + 9 = 29$

- A) c divided by 9 is 29
- B) 9 less than c is 29
- C) c increased by 9 is 29
- D) c cubed is 29

38) $x \cdot 5 = 34$

- A) the difference of x and 5 is equal to 34
- B) x times 5 is equal to 34
- C) 5 more than x is equal to 34
- D) the 5th power of x is equal to 34

40) $\frac{n}{2} = 13$

- A) the difference of 2 and n is 13
- B) the quotient of n and 2 is 13
- C) the quotient of 2 and n is 13
- D) n cubed is 13

42) $x - 22 = 17$

- A) 22 less than x is 17
- B) 22 increased by x is 17
- C) x less than 22 is 17
- D) the quotient of 22 and x is 17

44) $n + 7 = 36$

- A) 7 to the n is equal to 36
- B) 7 minus n is equal to 36
- C) 7 divided by n is equal to 36
- D) 7 more than n is equal to 36

46) $p - 10 = 46$

- A) the difference of 10 and p is equal to 46
- B) the difference of p and 10 is equal to 46
- C) the quotient of 10 and p is equal to 46
- D) the product of 10 and p is equal to 46

47) $w^3 = 33$

- A) the sum of 3 and w is equal to 33
- B) w times 3 is equal to 33
- C) 3 cubed is equal to 33
- D) w cubed is equal to 33

49) $r + 9 = 22$

- A) 9 more than r is 22
- B) twice r is 22
- C) the quotient of r and 9 is 22
- D) r times 9 is 22

51) the difference of n and 3 is 14

53) twice p is equal to 7

55) the product of x and 8 is 32

57) k plus 5 is 21

59) d plus 10 is 9

61) n plus 7 is equal to 17

63) the x power of 5 is equal to 23

65) r divided by 3 is 10

67) w decreased by 8 is 35

69) n times 9 is equal to 33

71) the 3rd power of w is equal to 25

73) n plus 8 is 20

75) n increased by 9 is equal to 21

77) y increased by 5 is 16

79) k minus 3 is 36

81) m cubed is equal to 45

83) n divided by 4 is equal to 42

85) the difference of c and 4 is equal to 45

87) x times 10 is 24

89) the 10th power of x is equal to 9

91) m minus 14 is 39

93) x plus 11 is equal to 23

95) n increased by 6 is equal to 18

97) n to the 10th is equal to 8

99) x decreased by 10 is 33

48) $x + 11 = 43$

- A) x increased by 11 is 43
- B) the x power of 11 is 43
- C) the product of x and 11 is 43
- D) x times 11 is 43

50) $x^2 = 19$

- A) the product of 2 and x is equal to 19
- B) twice 2 is equal to 19
- C) 2 squared is equal to 19
- D) x squared is equal to 19

52) d decreased by 13 is 5

54) x decreased by 9 is 19

56) x minus 7 is 50

58) the quotient of n and 7 is 12

60) the sum of y and 6 is equal to 32

62) q times 6 is equal to 33

64) x increased by 11 is equal to 10

66) the sum of k and 8 is 18

68) k decreased by 18 is 49

70) x divided by 5 is 11

72) the 9th power of n is equal to 22

74) p increased by 12 is 44

76) the sum of x and 12 is 48

78) the difference of q and 6 is 28

80) half of t is 46

82) the product of m and 12 is 16

84) the quotient of c and 6 is equal to 27

86) the sum of w and 9 is 50

88) the difference of y and 12 is 13

90) d times 11 is equal to 45

92) x minus 4 is 6

94) the difference of n and 11 is equal to 44

96) m minus 12 is equal to 38

98) w minus 24 is equal to 22

100) k to the 7th is equal to 31

Answers to Writing Equations (ID: 1)

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|------------------------|------------------------|------------------------|------------------------|
| 1) C | 2) B | 3) A | 4) B |
| 5) D | 6) C | 7) A | 8) D |
| 9) A | 10) D | 11) C | 12) A |
| 13) D | 14) B | 15) B | 16) B |
| 17) D | 18) B | 19) D | 20) B |
| 21) C | 22) A | 23) D | 24) B |
| 25) C | 26) B | 27) A | 28) C |
| 29) B | 30) B | 31) A | 32) D |
| 33) C | 34) B | 35) B | 36) C |
| 37) D | 38) B | 39) D | 40) B |
| 41) D | 42) A | 43) C | 44) D |
| 45) D | 46) B | 47) D | 48) A |
| 49) A | 50) D | 51) $n - 3 = 14$ | 52) $d - 13 = 5$ |
| 53) $2p = 7$ | 54) $x - 9 = 19$ | 55) $x \cdot 8 = 32$ | 56) $x - 7 = 50$ |
| 57) $k + 5 = 21$ | 58) $\frac{n}{7} = 12$ | 59) $d + 10 = 9$ | 60) $y + 6 = 32$ |
| 61) $n + 7 = 17$ | 62) $q \cdot 6 = 33$ | 63) $5^x = 23$ | 64) $x + 11 = 10$ |
| 65) $\frac{r}{3} = 10$ | 66) $k + 8 = 18$ | 67) $w - 8 = 35$ | 68) $k - 18 = 49$ |
| 69) $n \cdot 9 = 33$ | 70) $\frac{x}{5} = 11$ | 71) $w^3 = 25$ | 72) $n^9 = 22$ |
| 73) $n + 8 = 20$ | 74) $p + 12 = 44$ | 75) $n + 9 = 21$ | 76) $x + 12 = 48$ |
| 77) $y + 5 = 16$ | 78) $q - 6 = 28$ | 79) $k - 3 = 36$ | 80) $\frac{t}{2} = 46$ |
| 81) $m^3 = 45$ | 82) $m \cdot 12 = 16$ | 83) $\frac{n}{4} = 42$ | 84) $\frac{c}{6} = 27$ |
| 85) $c - 4 = 45$ | 86) $w + 9 = 50$ | 87) $x \cdot 10 = 24$ | 88) $y - 12 = 13$ |
| 89) $x^{10} = 9$ | 90) $d \cdot 11 = 45$ | 91) $m - 14 = 39$ | 92) $x - 4 = 6$ |
| 93) $x + 11 = 23$ | 94) $n - 11 = 44$ | 95) $n + 6 = 18$ | 96) $m - 12 = 38$ |
| 97) $n^{10} = 8$ | 98) $w - 24 = 22$ | 99) $x - 10 = 33$ | 100) $k^7 = 31$ |