

1-8 Writing Expressions_hw

Name _____

Date _____ Period _____

Write each as an algebraic expression.

- 1) the quotient of a number and 8
- 2) a number squared
- 3) 15 divided by a number
- 4) a number cubed
- 5) a number decreased by 16
- 6) a number plus 12
- 7) the sum of a number and 8
- 8) twice a number
- 9) 72 divided by a number
- 10) q less than 17
- 11) the product of a number and 7
- 12) the 4th power of 2
- 13) the difference of 14 and 11
- 14) half of a number
- 15) 9 plus a number
- 16) a number increased by 5
- 17) u to the 3rd
- 18) 10 more than a number
- 19) 9 increased by 6
- 20) twice a number
- 21) 16 minus 14
- 22) a number times 7

Write each as a verbal expression.

- 23) $8 + n$
- 24) $n - 4$
- 25) $9 + 10$
- 26) 5^2
- 27) $3n$
- 28) 3^2
- 29) $n + 11$
- 30) $\frac{n}{3}$
- 31) $18 - 3$
- 32) 3^4
- 33) $18 - n$
- 34) $15 - n$
- 35) $29 - 4$
- 36) 7^2
- 37) $18 - 8$
- 38) $10 + 8$
- 39) 10^k
- 40) 7^2
- 41) $n + 8$
- 42) $10n$
- 43) $9 + n$
- 44) $n - 16$

Translate each expression and SOLVE.

- 45) the quotient of 6 and 3
- 47) the product of 12 and 7
- 49) half of 24
- 51) 4 cubed
- 53) 10 to the 2nd
- 55) 12 divided by 2
- 57) 3 to the 4th
- 59) 4 squared
- 61) 3 less than 16
- 63) the product of 8 and 6

- 46) 24 decreased by 21
- 48) 3 to the 4th
- 50) 27 decreased by 24
- 52) 4 squared
- 54) twice 7
- 56) 13 less than 22
- 58) 3 cubed
- 60) 9 squared
- 62) half of 6
- 64) the quotient of 30 and 5

Write each as an algebraic expression. DO NOT SOLVE.

- 65) 12 more than a number is 20
- 67) a number times 11 is 29
- 69) twice a number is equal to 42
- 71) the product of a number and 6 is 16
- 73) 3 less than x is less than 43
- 75) a number minus 11 is greater than 25
- 77) x to the 3rd is greater than or equal to 46

- 66) a number increased by 10 is equal to 46
- 68) a number cubed is 32
- 70) the quotient of a number and 3 is 36
- 72) the difference of a number & 13 is equal to 14
- 74) half of a number is less than or equal to 22
- 76) 10 to the c is less than 16
- 78) a number plus 7 is less than or equal to 47

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|---------------------------------------|------------------------------|-------------------------------|---------------------------|
| 1) $\frac{8}{n}$ | 2) n^2 | 3) $\frac{n}{15}$ | 4) n^3 |
| 5) $n - 16$ | 6) $n + 12$ | 7) $n + 8$ | 8) $2n$ |
| 9) $\frac{n}{72}$ | 10) $17 - q$ | 11) $n \cdot 7$ | 12) 2^4 |
| 13) $14 - 11$ | 14) $\frac{2}{n}$ | 15) $9 + n$ | 16) $n + 5$ |
| 17) n^3 | 18) $n + 10$ | 19) $9 + 6$ | 20) $2n$ |
| 21) $16 - 14$ | 22) $n \cdot 7$ | 23) n more than 8 | 24) 4 less than n |
| 25) 9 plus 10 | 26) the 2nd power of 5 | 27) 3 times a number | 28) 3 squared |
| 29) 11 more than a number | 30) a number divided by 3 | 31) 3 less than 18 | |
| 32) 3 to the 4th | 33) 18 decreased by a number | 35) 29 minus 4 | 36) 7 to the 2nd |
| 34) the difference of 15 and a number | 38) 10 increased by 8 | 39) 10 to the k | 40) 7 squared |
| 41) 8 more than a number | 42) 10 times a number | 43) the sum of 9 and a number | |
| 44) a number decreased by 16 | 45) 2 | 46) 3 | |
| 47) 84 | 48) 81 | 49) 12 | 50) 3 |
| 51) 64 | 52) 16 | 53) 100 | 54) 14 |
| 55) 6 | 56) 9 | 57) 81 | 58) 27 |
| 59) 16 | 60) 81 | 61) 13 | 62) 3 |
| 63) 48 | 64) 6 | 65) $n + 12 = 20$ | 66) $n + 10 = 46$ |
| 67) $n \cdot 11 = 29$ | 68) $n^3 = 32$ | 69) $2n = 42$ | 70) $\frac{3}{n} = 36$ |
| 71) $n \cdot 6 = 16$ | 72) $n - 13 = 14$ | 73) $x - 3 < 43$ | 74) $\frac{2}{n} \leq 22$ |
| 75) $n - 11 > 25$ | 76) $10^c < 16$ | 77) $x^3 \geq 46$ | 78) $n + 7 \leq 47$ |