

Worksheet # 2: Write the Expression or Equation Algebraically

An **algebraic expression** is a mathematical expression that will have variables, numbers and operations. The variable will represent the number in an expression or an equation. Answers may vary slightly.

- 1.) The difference of a number and 25 is 42
- 2.) The sum of a number and 10 is equal to 14
- 3.) 21 less than a number is 37
- 4.) A number cubed is equal to 25
- 5.) A number increased by 8 is equal to 24
- 6.) The difference of a number and 8 is 16
- 7.) The 3rd power of n is 30
- 8.) 5 less than a number is 47
- 9.) A number increased by 5 is 26
- 10.) 11 more than a number is equal to 14
- 11.) The product of a number and 12 is equal to 18
- 12.) The sum of a number and 8 is equal to 15
- 13.) 6 less than a number equals 41
- 14.) A number decreased by 3 is equal to 31
- 15.) The product of a number and 10 is 19

Worksheet # 2: Answers

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| 1.) The difference of a number and 25 is 42 | $n - 25 = 42$ |
| 2.) The sum of a number and 10 is equal to 14 | $n + 10 = 14$ |
| 3.) 21 less than a number is 37 | $n - 21 = 37$ |
| 4.) A number cubed is equal to 25 | $n^3 = 25$ |
| 5.) A number increased by 8 is equal to 24 | $n + 8 = 24$ |
| 6.) The difference of a number and 8 is 16 | $n - 8 = 16$ |
| 7.) The 3rd power of n is 30 | $n^3 = 30$ |
| 8.) 5 less than a number is 47 | $n - 5 = 47$ |
| 9.) A number increased by 5 is 26 | $n + 5 = 26$ |
| 10.) 11 more than a number is equal to 14 | $n + 11 = 14$ |
| 11.) The product of a number and 12 is equal to 18 | $n \cdot 12 = 18$ |
| 12.) The sum of a number and 8 is equal to 15 | $n + 8 = 15$ |
| 13.) 6 less than a number equals 41 | $n - 6 = 41$ |
| 14.) A number decreased by 3 is equal to 31 | $n - 3 = 31$ |
| 15.) The product of a number and 10 is 19 | $n \cdot 10 = 19$ |