Worksheet # 4:   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 product of -4 and a number is 36

2.) A number increased by 7 is -23

3.) The product of – 7 and a number is 35

4.) Three times a number = 22

5.) A number increased by 9 equals 41

6.) Three times the difference between x and 5

7.) The product of 6 and a number increased by 6

8.) 5 times a number plus 6 times a number

9.) A number increased by three times the number

10.) 4 times the sum of a number and 8

11.) A number plus three times the number is 44

12.) ½ of a number is 12 more than 2 times the number

13.) 2 more than 5 times a number is 32

14.)4 times a number plus 12 times the number

15.) 7 times the difference between x and 5

Worksheet # 4:   Answers

1.) The product of -4 and a number is 36 $-4x = 36$

2.) A number increased by 7 is -23 $X + 7 = 23$

3.) The product of – 7 and a number is 35 $-7x = 35$

4.) Three times a number = 22 $3x = 21$

5.) A number increased by 9 equals 41 $X + 9 = 41$

6.) Three times the difference between x and 5 $3 (x – 5)$

7.) The product of 6 and a number increased by 6 $6 (x + 6)$

8.) 5 times a number plus 6 times a number $5x + 6 x$

9.) A number increased by three times the number $X + 3x$

10.) 4 times the sum of a number and 8 $4 (x + 8)$

11.) A number plus three times the number is 44 $X + 3x = 44$

12.) ½ of a number is 12 more than 2 times the number $1/2x = 12 + 2x$

13.) 2 more than 5 times a number is 32 $2 + 5x = 32$

14.)4 times a number plus 12 times the number $2x + 12x$

15.) 7 times the difference between x and 5 $7(x-5)$