

## Lesson 4 Mathematical Language and Symbols

### Convert the following mathematical statements to English sentences

1.  $12 + 1 = 13$
2.  $3(8) = 24$
3.  $\frac{10-2}{3} = 2$
4.  $\frac{3(4+1)}{5} = 3$
5.  $3(11-5) = 18$

ANSWER:

1. Twelve plus one is equal to thirteen.
2. Three times eight is twenty four.
3. The difference of ten and two all over three is two.
4. Three the quantity four plus one divided by five is equal to three.
5. Thrice the difference of eleven and five is equal to eighteen.

### Convert the following English sentences to mathematical statements

1. The difference of eight and three is five.
2. The sum of six and four, diminished by seven is equal to three.
3. The quotient of twenty-one and, five less two is seven.
4. The ratio of the sum of nine and five, and seven is two.
5. One thousand less 12 percent of it is eight hundred eighty.

ANSWER:

1.  $8-3=5$
2.  $(6+4)-7=3$
3.  $21/(5-2)=7$

4.  $9 + 5/7 = 2$

5.  $1000 - 0.12(1000) = 880$

## Convert the following algebraic expression to English sentences

1.  $2x = 10 - 2$

2.  $3x = 5 - 2x$

3.  $\frac{2(x-1)}{5-3} = 3$

4.  $\frac{3(x+1)}{5} = 7$

5.  $11 - 3(x-4) = 5$

ANSWER:

1. Twice a number is equal to ten minus two.
2. Thrice a number is equal to the difference of five and twice a number.
3. Twice a difference of a number and one, all over by the difference of five and three is three.
4. Thrice the sum of a number and one, all over five is equal to seven.
5. Eleven minus three, multiplied to the difference of a number and four is five.

## Convert the following English sentences to algebraic expressions

1. The sum of a number and four is twelve.
2. The difference of twice a number and eleven is fifty.
3. The ratio of a number and 2, diminished by 5 is thirteen.
4. The quotient of a number less five, and four is eleven.
5. Sixty percent of a number is fifteen.

ANSWER:

1.  $x+4=12$

2.  $2x-11=50$

3.  $x/2-5=13$

4.  $x-5/4=11$

5.  $3/5x=15$