Translating Verbal / Algebraic Phrases 1.4

Overview of problems

Example Set: A

Translate the phrase into an algebraic expression:

1. 3 times a number plus 12
2. The product of two different numbers
3. 7 times a number decreased by 2
4. The quotient of 15 and y

Example Set: B

Translate the phrase into an algebraic expression:

1. The difference between three times a number and 8
2. 16 more than $\frac{1}{3}$ of the sum of two numbers
3. 11 less than a number divided by 6

Translating Verbal / Algebraic Phrases 1.4

Overview of problems

Example Set: C

Translate the sentence into an equation or inequality:

1. 9 more than a number times 6 is 20

2. 2 times the difference of a number and 4 is y

3. A number decreased by the sum of 7 and the square of another number is 100

4. The product of 2 and the sum of x and y is greater than the quotient of x and y

Translating Verbal / Algebraic Phrases 1.4

Overview of problems

*Example Set: A -**ANSWER KEY***

Translate the phrase into an algebraic expression:

1. 3 times a number plus 12 $= 3x + 12$
2. The product of two different numbers $= xy$
3. 7 times a number decreased by 2 $= 7x - 2$
4. The quotient of 15 and y $= \frac{15}{y}$

*Example Set: B- **ANSWER KEY***

Translate the phrase into an algebraic expression:

1. The difference between three times a number and 8 $= 3x - 8$
2. 16 more than $\frac{1}{3}$ of the sum of two numbers $= \frac{1}{3}(x + y) + 16$
3. 11 less than a number divided by 6 $= \frac{x}{6} - 11$

Translating Verbal / Algebraic Phrases 1.4

Overview of problems

*Example Set: C-**ANSWER KEY***

Translate the sentence into an equation or inequality:

1. 9 more than a number times 6 is 20 $6x + 9 = 20$

2. 2 times the difference of a number and 4 is y $2(x - 4) = y$

3. A number decreased by the sum of 7 and the square of another number is 100

   $x - (7 + y^2) = 100$

4. The product of 2 and the sum of x and y is greater than the quotient of x and y

   $2(x + y) > \frac{x}{y}$