

Number Relation Problems

02/29/2012

Student Name: _____

Class: _____

Date: _____

Instructions: **Read each question carefully and select the correct answer.**

1. The sum of three numbers is twenty. The first number is six more than two times the third number. The second number is eleven more than the product of the third number and three. Find the numbers.

A. $x = 1.5; y = 6; z = 12.5$
B. $x = 0.5; y = 4.5; z = 15$
C. $x = 6.4; y = 8.1; z = 5.5$
D. $x = 7; y = 12.5; z = 0.5$

2. One number is fifteen less than another number. If three times the larger number is decreased by the smaller number, the result is thirty. Find the numbers.

A. $x = 15/2; y = 45/2$
B. $x = -15/2; y = 15/2$
C. $x = 22.5; y = 37.5$
D. $x = 7.5; y = 22$

3. The sum of two numbers is thirty. One number is five less than six times the other number. Find the numbers.

A. $x = 25; y = 5$
B. $x = 24.5; y = 5.5$
C. $x = 14; y = 6$
D. $x = 6.8; y = 23.2$

4. The length of a rectangle is four more than three times the width. The perimeter is sixty-four meters. Find the length and the width.

A. $l = 21.5; w = 10.5$
B. $l = 25; w = 7$
C. $l = 26.5; w = 5.5$
D. $l = 28; w = 4$