Name: _____ Date: _____

<u>Properties of Whole Numbers</u>

Q1. Write the property for each of the following.

   a. 2 + 3 = 5, a whole number   _____

   b. 84 + 0 = 84   _____

   c. 56 + 89 = 89 + 56   _____

   d. 34 + (12 +23) = (34 + 12) + 23   _____

   e. 77 x 0 = 0   _____

   f. 1 x 66 = 66   _____

   g. 20 (10 + 5) = (20 x 10) + (20 x 5)   _____

Q2. Solve the following using distributive property.

   a. 234 x 13 + 234 x 7

   b. 405 + 405 x 29

   c. 3845 x 5 x 782 + 769 x 25 x 218

Answers

Properties of Whole Numbers

Q1. Write the property for each of the following.

  a. 2 + 3 = 5, a whole number   Closure Property For Addition

  b. 84 + 0 = 84   Additive Identity

  c. 56 + 89 = 89 + 56   Commutative Property For Addition

  d. 34 + (12 +23) = (34 + 12) + 23   Associative Property Of Addition

  e. 77 x 0 = 0   Multiplication Property Of Zero

  f. 1 x 66 = 66   Multiplicative Identity

  g. 20 (10 + 5) = (20 x 10) + (20 x 5)   Distributive of multiplication
      over addition

Q2. Solve the following using distributive property.

  a. 234 x 13 + 234 x 7

  = 234 (13 + 7)

  = 234 (20)

  = 4680

  b. 405 + 405 x 29

  = 405 (1 + 29)

  = 405 (30)

  = 12150

  c. 3845 x 5 x 782 + 769 x 25 x 218

  = (769 x 5) x 5 x 782 + 769 x 25 x 218

  = 769 x 25 x 782 + 769 x 25 x 218

  = 769 x 25 (782 + 218)

  = 19225 (1000)

  = 19225000