Multiplying Integers - Properties

- Multiplying by zero

  any number multiplied by 0 = zero

  ∴ multiplying any integer by zero also = zero

  ie: (-2) x (0) = (0)
  (5) x (0) = (0)

- Multiplying by one

  any number multiplied by one is itself
  ∴any integer multiplied by one is itself

  ie: (12) x (1) = (12)
  (1) x (-8) = (-8)

- Commutative Property

4 x 2 = 8 and 2 x 4 = 8

(-4) x (2) = (-8) and (2) x (-4) = (-8)

Any whole # multiplied by another whole # yield the same answer regardless of their order (which is first or second)

∴

Any integer multiplied by another integer yields the same answer regardless of their order!!

- Distributive Property

4 x (2 + 3) = (4 x 2) + (4 x 3)

4 x 5 = 8 + 12

20 = 20

you can write the product of integers without the use of the multiply sign

(-2) x (-3) = 6

(-2)(-3) = 6

Textbook work...pp. 73 - 75...#'s 3 - 13, 15 - 18

Work book...pp.32, 33

Quiz