1-9 MULTIPLYING AND DIVIDNG INTEGERS

The product of two integers with the same sign is positive. (multiplying)

The product of two integers with different signs is <u>negative</u>. (multiplying)

The product of zero and any integer is zero. (multiplying)

EX)
$$3(4) = 12$$
 $3(-4) = -12$ $-3(-4) = 12$ $-3(0) = 0$ $-4(0) = 0$

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EX)
$$-3 * 5 (-4) = 60$$
 $-2 (-3) (-2) = 4 (2) (-3) =$

Quick Check

$$-4 * 8 (-2) = 64 \quad 6(-3)(5) = -90 \quad -7*(-14) * 0 = 0$$

The quotient of two integers with the same sign is positive. (dividing)

The quotient of two integers with different signs is negative. (dividing)

Division by zero is undefined.

EX)
$$12-3=4$$
 $12-(-3)=-4$ $-12-(-3)=4$

EX)
$$-32-8=-4$$
 $-48-(-6)=8$ $-56-(-4)=14$