11.4 Multiplying Integers

ESSENTIAL QUESTION: Is the product of 2 integers positive, negative or zero?

The product of two integers with the same sign is ositive Even number of negatives the product is positive

The product of two integers with different signs is $\frac{n \otimes g \otimes h}{n}$ number of negatives the product is $\frac{n \otimes g \otimes h}{n}$.

$$-5 \cdot (-6) = 3$$

$$9 \cdot (-7) = - \bigcirc 3$$

$$-6 \cdot 6 = -3$$

$$-5 \cdot (-6) = \frac{3}{3} \circ 9 \cdot (-7) = 2 \circ 3 -6 \cdot 6 = -\frac{3}{3} \circ -8 \cdot (-12) = 9 \circ 6$$

$$-5\cdot(-5) = 25$$

$$-7.9 = -63$$

$$-8 \cdot (-7) = 56$$

$$12 \cdot (-6) = -72$$

$$-7 \cdot (-5) \cdot (-4) =$$
 $35 \cdot (-4) = -146$

USING EXPONENTS

Evaluate
$$(-2)^2$$
 - \downarrow

$$-10(-6)(0) =$$

$$-9(5)(-3) =$$
 $-45(-3) = 135$

Evaluate
$$-5^2 - 25$$

Evaluate
$$(-4)^3 = -64$$

Evaluate the expression.

$$(-3)^2 = 9$$

$$-6^3 = -2 \setminus 6$$

$$-6^3 = -2 \setminus 6$$
 $(-2)^3 = -8$

The bar graph shows the number of taxis a company has in service. The number of taxis decreases by the same amount each year for 4 years. Find the total change in the number of taxis.

