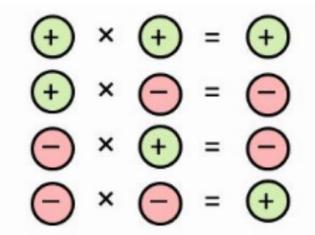## Multiplication of Integers

Integer: A whole number that is positive or negative or zero and not a decimal or fraction

Important Notes:

☐ If there is an even number of negative signs in the multiplication equation, then the answer will always be __Positive__

eg: $(4)(-2)(6)(-1) = 48$

☐ If there is an odd number of negative signs in the multiplcation equation, then the answer will always be __Negative__

eg: $(-2)(5)(8)(3) = -240$

Practice:

1) $-4(6)$	2) $-7(3)$	3) $-7(7)$	4) $7(7)$
$= -24$	$= -21$	$= -49$	$= 49$
5) $(-4)(4)(-6)$	6) $(-2)(-8)(-1)$	$(-5)(4)(-3)(2)(-1)$	$(-x)(-y)(z)$
$= 96$	$= -16$	$= -120$	$= xyz$
		7)	8)

Problem:

The value of Eric's new car bought in <mark>August 2020</mark> was <mark>$21,600.</mark> <mark>For each month he owned the car, it depreciates $200</mark> in value. <u>How much is the car worth now in</u> <mark>September 2021?</mark>

· August 2020 — September 2021 : 13 months

· $200 × 13 months = $2,600 depreciates

Final Value = $\underline{Original\ Price}$ + $\underline{depreciation}$

$$= \$21600 \quad + \quad (\$-2600\ )$$

$$= \$21600 \quad\quad - \$2600$$

$$= \$19,000 \checkmark$$

Everyone: Two wrongs dont make a right

Multiplied negative numbers:

SABC ①

Am I a joke to you?

Summary

· If even number of negative signs being multiplied, our answer positive

· If odd number of negative signs being multiplied, our answer is negative

Homework: P.62-64 #1aceg, 3ace, 5ace, 8,9,13,15