INTEGERS

- Integers are positive and negative whole numbers including zero.
- Set of integers: {..., -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, ...}
- Integers do **NOT** include fractions or decimals.

Addition:

- Positive integers: How much money you have!
- Negative integers: How much money you owe!
- Addition is the process of combining what you have and owe.

•	Example Example	Read as follows	Read answer	<u>Answer</u>
	-6 + 8	You owe \$6 and have \$8	Have \$2	2
	3 + (-7)	You have \$3 and owe \$7	Owe \$4	-4
	-5 + (-2)	You owe \$5 and owe \$2	Owe \$7	-7
	6 + 4	You have \$6 and have \$4	Have \$10	10

Subtraction:

• If you have a difficult problem, do the opposite (change the sign) of what **follows the subtraction sign** and then write as addition.

•	Example	Written as addition	<u>Answer</u>
	4 – 9	4 + (-9)	- 5
	7 - (-2)	7 + 2	9
	-5 - 8	-5 + (-8)	-13
	-3 $-(-7)$	- 3 + 7	4

Multiplication and Division:

- LIKE signs give a positive answer.
- UNLIKE signs give a negative answer.

•	Example	Answer		Example	<u>Answer</u>
	4 • 5	20	Like signs	10 ÷ 5	2
	-3 • -8	24	Like signs	$-6 \div (-2)$	3
	7 • -6	-42	Unlike signs	$8 \div (-4)$	-2
	-4 • 2	-8	Unlike signs	-9 ÷ 3	-3