

Key

Homework #5 – Integer Review

- 1) Evaluate: $-10 - 47$

$$-10 + (-47) = -57$$

- 2) Evaluate: $(-12) + (-11)$

$$-23$$

- 3) What is the definition of absolute value?

An integer's distance from zero

- 4) Evaluate: $-|-12|$

$$-12$$

- 5) Evaluate: $16 + (-13) + 5$

$$\begin{array}{l} \downarrow \\ 3 + 5 = 8 \end{array}$$

- 6) Evaluate: $10 + 3 - (-8)$

$$\begin{array}{l} \downarrow \\ 3 - (-8) \rightarrow 3 + 8 = 11 \end{array}$$

- 7) During an electronics experiment, you measure -14 volts on terminal A of your newly designed circuit. After adjusting the circuit, you measure -21 volts. What is the difference of the two voltage readings?

$$\begin{array}{l} -14 - (-21) \\ -14 + 21 \end{array} \quad \text{7 volts}$$

- 8) True or False: Positive numbers are to the left of zero on a number line.

False

- 9) The temperature outside in the morning was 9 degrees. By late afternoon, the temperature drops 14 degrees. What is the new temperature?

$$9 + (-14) = -6^\circ$$

- 10) Evaluate: $2 - (-9)$

$$2 + 9 = 11$$

- 11) Evaluate: $-1 - 10$

$$-1 + (-10) = -11$$

- 12) A submarine was 745 feet below sea level. If it ascends 275 feet, what is its new position?

$$-745 + 275 = -470$$

- 13) Evaluate: $6 + (-5) + |-3 + 2|$

$$6 + (-5) + \downarrow | -1 |$$

$$6 + (-5) + 1 = 2$$



- 14) Kayla started the week with \$48 in her bank account. She deposited \$35 she earned from babysitting. Then she withdrew \$22 to buy a shirt. What is her final balance of her bank account?

$$48 + 35 + (-22)$$

\$61

- 15) What is Mr. Tallman's favorite baseball team?

Mets

- 16) The Bigtown Bears football team are on the 25 yard line. They lose 3 yards, gain 8 yards and then lose 2 yards. What yard line are the Bears after those three plays?

$$25 + (-3) + 8 + (-2) = 28 \text{ yard line.}$$

- 17) Order the following from least to greatest: $|-34|$, $|21|$, $|-17|$, $|20|$, $|-11|$

$$-17, |-11|, |20|, 21, |-34|$$

- 18) A plane is flying at 10,000 feet. The plane climbs 17,000 feet to approach cruising altitude. What is the plane's cruising altitude?

$$10,000 + 17,000 = 27,000 \text{ ft.}$$

- 19) Evaluate: $-8 + 15$

7

- 20) True or False: $|-7|$ is greater than $|15|$

↓

7

↓

15

False