

Name _____

Period _____

Integers

Solve.

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

$$-14 - (-21)$$

$$-14 + 21$$

$$7 \text{ volts}$$

2. The temperature outside in the morning was 9° F. By late afternoon, the temperature drops 14° F. What is the new temperature?

$$9 - 14$$

$$-6^{\circ}$$

3. Mt Everest's elevation is 29,028 feet above sea level. The Dead Sea is 1,312 feet below sea level. What is the difference between these two elevations?

$$29,028 - (-1,312)$$

$$30,340 \text{ ft}$$

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

$$-745 + 275$$

$$-470 \text{ ft}$$

5. DeSean had possession of the football four times in a recent game. He gained 21 yards, -7 yards, 12 yards and -3 yards. What was his total yardage gained?

$$21 + (-7) + 12 + (-3)$$

$$23 \text{ yards}$$

6. The Sahara Desert had a temperature of 126° F. The Gobi Desert had a temperature of -49° F. What is the difference between the two temperatures?

$$126 - (-49)$$

$$126 + 49$$

$$175^{\circ}$$

7. Metal mercury has a melting point of -39° C. The freezing point of alcohol is -114° C. How much warmer is the melting point of mercury than the freezing point of alcohol?

$$-39 - (-114)$$

$$-39 + 114$$

$$75^{\circ}$$

8. 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?

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

$$\$61$$

9. When John began skiing, the temperature was 8 degrees below zero. After sledding for a few hours, the temperature was now 2 degrees. By how many degrees had the temperature increased?

$$2 - (-8)$$

$$2 + 8$$

$$10^{\circ}$$

10. 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 yard line

11. A plane is flying at 10,000 feet. The plane climbs 17,000 feet to approach cruising altitude. Then it descends 24,920 feet. What is the new altitude of the plane?

$$10,000 + 17,000 + (-24,920)$$

$$27,000 + (-24,920)$$

$$2,080 \text{ feet}$$

12. Roman Civilization began in 509 B.C. and ended in 476 A.D. How long did Roman Civilization last?

$$476 - (-509)$$

$$985 \text{ years}$$

