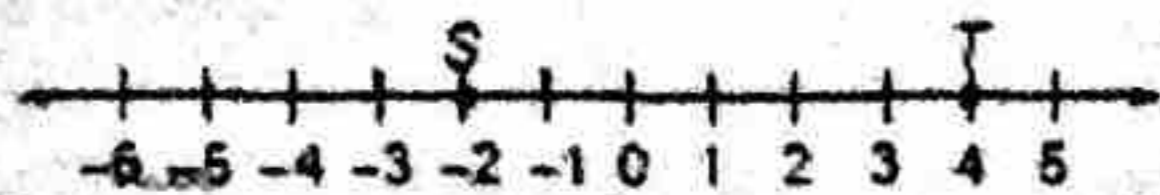**Unit 1 mid-Test Study Guide**

Name _Key_

Date _9/2_ Pd_____

---

1. What integer represents 12 feet below sea level? _−12_

2. What is the value of: $|5|$ _5_ $|−2|$ _2_ $−|−12|$ _−12_

---

3. What is the value of each letter on the number line? S= _−2_ T= _4_

-6 -5 -4 -3 -2 -1 0 1 2 3 4 5

---

4. A hot air balloon rises 3 feet per hour for 2 hours. Write an expression to describe this situation.
_3 × 2_   3(2)

5. Pat has $50 in the bank. She withdraws $20 and spends it. Write an expression to describe this situation. $50 − 20   50+(−20)
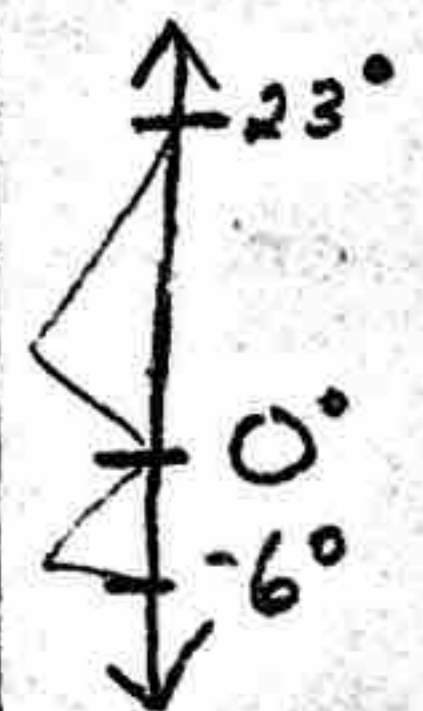
6. The shark was 25 feet under water. He goes down another 12 feet. What is his new depth? _−37_   −25 + ⁻12

7. The temperature was 23 degrees at sundown. After midnight, it was -6 degrees. What is the difference between these two temperatures? _29°_

*difference between

23°
0°
-6°

What is the value of each expression?

8. 5+4= _9_   9. -12+-3= _−15_   10. -6+11= _5_   11. 14+-4= _10_

12. 8-12= _−4_   13. -5-(-8)= _3_   14. -9-13= _−22_   15. 6-(-8)= _14_
8+⁻12   −5+8   −9+⁻13   6+8

16. -3(5)= _−15_   17. -7(-3)= _21_   18. 6÷(-3)= _−2_   19. $\frac{-15}{-5}$ = _3_

What is the value of each expression if x=-2 and z=4

20. xz _−8_   21. −6+z _−2_   22. $\frac{12}{x}$ _−6_   23. x−z _−6_

-2·4   −6+4   -2   -2-4

                                        -2+⁻4