

Name _____

Date _____

2.1-2.3 Quiz

Study Guide

Solve:

1) $-5 + 8 = 3$

2) $3 + (-9) = -6$

3) $-3 + 7 = 4$

4) $3 - 9 = -6$

5) $-7 - 8 = -15$

6) $5 - (-4) = 9$

7) $127 + (-46) = 81$

8) $-5 - (-3) = -2$

9) $-3 + 0 = -3$

10) $-7 + 14 = 7$

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

12) $-6 + 12 = 6$

13) $1 - 14 = -13$

14) $-5 - 12 = -17$

15) $-2 - (-6) = 4$

16) $-250 + (-50) = -300$

17) $-2 - (-2) = 0$

18) $0 + (-9) = -9$

Draw a picture if needed.

- 19) The temperature was $-15^{\circ}F$ at night. The next morning it was $6^{\circ}F$. How much did the temperature rise? **21 degrees**
- 20) A diver was at 45 feet above sea level. He descended 70 feet. Where is he now? **25 feet below sea level**
- 21) The temperature was $2^{\circ}F$. It dropped 8° . What is the temperature now? **$-6^{\circ}F$**
- 22) A diver was at 33 feet below sea level. He is now at 20 feet above sea level. How far was his climb? **53 feet**
- 23) A diver was at 26 feet above sea level. He is now at 12 feet below sea level. What was his total descent? **38 feet**
- 24) The temperature was $7^{\circ}F$. That night it was $-12^{\circ}F$. How many degrees did the temperature drop? **19 degrees**
- 25) Sally was in debt \$18. She made \$35 babysitting. How much does she have now after paying off her debt? **\$17**
- 26) Jimmy's balance on his bank statement says $-\$55$. If he deposits \$20 what will his balance be? **$-\$35$**
- 27) The Fonz had \$68 in his bank account. He bought a stereo for \$120. What is his current balance? **$-\$52$**

Combine like terms. Use a highlighter if needed.

$$28) 4t - 7t$$

$$-3t$$

$$29) -2a + (-4a)$$

$$-6a$$

$$30) 3m + 4n - 6m + n$$

$$-3m + 5n$$

$$31) 4d + 5 - 3d - 9$$

$$d - 4$$

$$32) 3b + 2c - 5b + 5$$

$$-2b + 2c + 5$$

$$33) 3ab + 4a - 6b + 9b - 7a$$

$$3ab - 3a + 3b$$

$$34) 4a + 3c - 5b - 10 - 3a - 4c + 7b - 3a + 5$$

$$-2a - c + 2b - 5$$

$$35) a + 2a^2 - 8a - 3 - 9a^2 - 7a + 2a - 9a + 1$$

$$-7a^2 - 21a - 2$$