Name_____ Class_____ Date_____

Practice 2-2
Subtracting Rational Numbers

Simplify.

1. $13 - 6$ 2. $19 - 35$ 3. $-4 - 8$

4. $-14 - (-6)$ 5. $18 - (-25)$ 6. $-32 - 17$

7. $-6.8 - 14.6$ 8. $-9.3 - (-23.9)$ 9. $-8.2 - 0.8$

10. $18.3 - (-8.1)$ 11. $-3 - (-15)$ 12. $6.4 - 17$

13. $\frac{3}{4} - 1\frac{1}{4}$ 14. $-\frac{1}{3} - \frac{2}{3}$ 15. $-\frac{1}{4} - \left(-\frac{3}{4}\right)$

16. $|-11| - |-29|$ 17. $|-4 - 8|$ 18. $|9.8| - |-15.7|$

19. $|-8 - (-32)|$ 20. $|3.7 - (-6.8)|$ 21. $2.83 - 3.82$

Evaluate each expression for $c = -3$ and $d = -6$.

22. $c - d$ 23. $-c - d$ 24. $-c - (-d)$

25. $|c + d|$ 26. $-c + d$ 27. $3c - 2d$

Simplify.

28. $8 - (-4) - (-5)$ 29. $6 - 10 - 4$ 30. $10 - 14 - 15$

31. $-6 - 3 - (-2)$ 32. $-5 + 7 - 9$ 33. $-2 - 2 - 4$

Subtract.

34. $\begin{bmatrix} -3 & -1 \\ 2 & 4 \end{bmatrix} - \begin{bmatrix} 5 & -2 \\ -3 & 8 \end{bmatrix}$ 35. $\begin{bmatrix} 6.1 & -4 \\ -3.7 & -2.1 \end{bmatrix} - \begin{bmatrix} 7.0 & -2.3 \\ -1.6 & 4.2 \end{bmatrix}$

36. The temperature in the evening was 68°F. The following morning, the temperature was 39°F. What is the difference between the two temperatures?

37. What is the difference in altitude between Mt. Everest, which is about 29,028 ft above sea level, and Death Valley, which is about 282 ft below sea level?

38. Suppose the balance in your checking account was $234.15 when you wrote a check for $439.87. (This is known as overdrawing your account.) Describe the account's new balance.

39. After three plays in which a football team lost 7 yd, gained 3 yd, and lost 1 yd, respectively, the ball was placed on the team's own 30-yd line. Where was the ball before the three plays?