

SUBTRACTING RATIONAL NUMBERS Find the difference. Write fractions in simplest form. (See Examples 1 and 2.)

10. $9 - 13$

11. $-12 - 14$

12. $-17 - (-5)$

▶ 13. $\frac{5}{8} - \left(-\frac{7}{8}\right)$

14. $-1\frac{1}{3} - 1\frac{2}{3}$

15. $-1 - 2.5$

16. $\frac{4}{5} - \left(-\frac{3}{10}\right)$

▶ 17. $5.5 - 8.1$

18. $-5 - \frac{5}{3}$

19. $-8\frac{3}{8} - 10\frac{1}{6}$

20. $-4.62 - 3.51$

21. $-\frac{1}{2} - \left(-\frac{5}{9}\right)$

22. $-7.34 - (-5.51)$

23. $6.673 - (-8.29)$

24. $12\frac{2}{5} - 17\frac{1}{3}$



25. **YOU BE THE TEACHER** Your friend finds the difference. Is your friend correct? Explain your reasoning.

$$\frac{3}{2} - \frac{9}{2} = \left| \frac{3}{2} \right| + \left| \frac{9}{2} \right| = \frac{12}{2} = 6$$

USING PROPERTIES Tell how the Commutative and Associative Properties of Addition can help you evaluate the expression. Then evaluate the expression. (See Example 3.)

▶ 31. $\frac{3}{4} + \frac{2}{3} - \frac{3}{4}$

32. $\frac{2}{5} - \frac{7}{10} - \left(-\frac{3}{5}\right)$

33. $8.5 + 3.4 - 6.5 - (-1.6)$

34. $-1\frac{3}{4} - \left(-8\frac{1}{3}\right) - \left(-4\frac{1}{4}\right)$

35. $2.1 + (5.8 - 4.1)$

36. $2\frac{3}{8} - 4\frac{1}{2} + 3\frac{1}{8} - \left(-\frac{1}{2}\right)$

FINDING DISTANCE ON A NUMBER LINE Find the distance between the two numbers on a number line. (See Example 4.)

37. 2.7 and 5.9

38. $-\frac{7}{9}$ and $-\frac{2}{9}$

▶ 39. -2.2 and 8.4

40. $\frac{3}{4}$ and $\frac{1}{8}$

41. -1.85 and 7.36

42. -7 and $-3\frac{2}{3}$

43. 2.491 and -3.065

44. $-2\frac{1}{2}$ and $-5\frac{3}{4}$

45. $-1\frac{1}{3}$ and $12\frac{7}{12}$



46. **MODELING REAL LIFE** The number line shows the temperatures at 2:00 A.M. and 2:00 P.M. in the Gobi Desert. Find and interpret the distance between the points. (See Example 5.)

