

A#5 ① p. 77 #3-23 odd, 33-43 odd
② p. 82-83 #3-37 odd, 42-43

Key

□ p. 77 #3-23 odd, 33-43 odd

3. $-11 + 3$ 5. $13 + (-7)$ 7. $-9 + (-4)$ 9. $-14 + 8$
 $\boxed{-8}$ $\boxed{6}$ $\boxed{-13}$ $\boxed{-6}$

11. $-11 + (-9)$ 13. $-8.7 + 4.2$ 15. $9.1 + (-2.5)$ 17. $-11.4 + (-3.8)$
 $\boxed{-20}$ $\boxed{-4.5}$ $\boxed{6.6}$ $\boxed{-15.2}$

19. $8\frac{2}{3} + (-1\frac{3}{5})$ 21. $-\frac{4}{9} + \frac{4}{5}$ 23. $-7\frac{1}{12} + (-13\frac{7}{8})$
 $8\frac{10}{15} + (-1\frac{9}{15})$ $-\frac{20}{45} + \frac{36}{45}$ $-7\frac{2}{24} + (-13\frac{21}{24})$
 $\boxed{7\frac{1}{15}}$ $\boxed{\frac{16}{45}}$ $\boxed{-20\frac{23}{24}}$

33. $-18 + (-12) + (-19)$ 35. $-2.6 + (-3.4) + 7.6$ 37. $8\frac{2}{3} + (-6\frac{3}{5}) + 3\frac{1}{4}$
 $-30 + (-19)$ $-6 + 7.6$ $8\frac{40}{60} + (-6\frac{36}{60}) + 3\frac{15}{60}$
 $\boxed{-49}$ $\boxed{1.6}$ $2\frac{4}{60} + 3\frac{15}{60}$
 $\boxed{5\frac{19}{60}}$

39. $x + (-5) + 5$; $x = -3$ 41. $-1.7 + (-5.4) + (-x)$; $x = 2.4$ 43. $|x| + (-3\frac{1}{4}) + (7\frac{3}{10})$; $x = 3\frac{1}{3}$
 $-3 + (-5) + 5$ $-1.7 + (-5.4) + (-2.4)$ $|3\frac{1}{3}| + (-3\frac{1}{4}) + (7\frac{3}{10})$
 $\boxed{-3}$ $\boxed{-9.5}$ $3\frac{20}{60} + (-3\frac{15}{60}) + 7\frac{18}{60}$
 $\boxed{5\frac{18}{60}}$
 $\boxed{7\frac{23}{60}}$

2 p. 82-83 # 3-25 odd, 32-34

key

3. $13 - (-5)$ 5. $-11 - (-3)$ 7. $-35.9 - (-50)$ 9. $-3.6 - 22.2$
 $13 + 5$ $-11 + 3$ $-35.9 + 50$ $-3.6 + (-22.2)$
18 -8 14.1 -25.8

11. $\frac{1}{2} - \frac{5}{6}$ 13. $\frac{1}{2} - (-\frac{1}{4})$ 15. Error: 8 was substituted for y.
 $\frac{3}{6} + (-\frac{5}{6})$ $\frac{2}{4} + \frac{1}{4}$ $3 - (-8) + 2$
 $-\frac{2}{6}$ $\frac{3}{4}$ $3 + 8 + 2$
 $-\frac{1}{3}$ 11 + 2
13

For #17-25 odd, $x = 7.1$ and $y = -2.5$.

17. $x - (-y)$ 19. $x - (-6) + y$ 21. $-y - (1.9 - x)$
 $7.1 - (-(-2.5))$ $7.1 - (-6) + (-2.5)$ $-(-2.5) - (1.9 - 7.1)$
 $7.1 - 2.5$ $7.1 + 6 + (-2.5)$ $-(-2.5) - (1.9 + (-7.1))$
 $7.1 + (-2.5)$ $13.1 + (-2.5)$ $-(-2.5) - (-5.2)$
4.6 10.6 $2.5 + 5.2$
7.7

23. $x - y - 2$

For #32-34, $x = 3.6$, $y = 6.6$, $z = -11$

25. $x + y - 2.8$ 32. $(x - y) - |z|$
 $7.1 + (-2.5) - 2.8$ $(3.6 - 6.6) - |-11|$
 $9.6 + (-2)$ $(3.6 + (-6.6)) - 11$
7.6 $-3 + (-11)$
1.8 -14

$(x - |y|) - z$

$x - |y - z|$

33. $(3.6 - |6.6|) - (-11)$ 34. $3.6 - |6.6 - (-11)|$
 $(3.6 - 6.6) - (-11)$ $3.6 - |6.6 + 11|$ $3.6 + (-17.6)$
 $(3.6 + (-6.6)) + 11$ $3.6 - |17.6|$ -14
 $-3 + 11$ $3.6 - 17.6$
8