Elementary Solutions - 1.3

1. -9 - (-2) - 43 + 46 - 87 - (-25)
-9 + 2 - 43 + 46 - 87 + 25
73 - 139
-66

3. -1 -1 -1 + 43
43 - 3
40

5. 11 - 45 - (-100) - 76 - 54
11 - 45 + 100 - 76 - 54
111 - 175
-64

7. 65 - 56 - 89 - (-87) + 0
65 - 56 - 89 + 87 + 0
152 - 145
7

9. -4 -4
0

11. -(-3) + 2 -(-1) -(-3) -5 -45 -(-26) + 2-(-4)
3 + 2 + 1 + 3 - 5 - 45 + 26 + 2 + 4
41 - 50
-9

13. -432 - (122) + (345) - 566 - (-54)
-432 - 122 + 345 - 566 + 54
399 - 1,120
-721

15. $\frac{3}{2} - \left(-\frac{3}{8} \right)$

$\frac{3}{2} + \frac{3}{8}$

$\frac{3}{2} \cdot \frac{4}{4} + \frac{3}{8}$

$\frac{12}{8} + \frac{3}{8}$

$\frac{15}{8}$

17. $-\left(-\frac{6}{5}\right) - \left(-\frac{4}{15}\right)$

$\frac{6}{5} + \frac{4}{15}$

$\frac{6}{5} \cdot \frac{3}{3} + \frac{4}{15}$

$\frac{18}{15} + \frac{4}{15}$

$\frac{22}{15}$

19. $-\left(-\frac{5}{8}\right) - \left(\frac{5}{12}\right) - \frac{1}{3}$

$\frac{5}{8} - \frac{5}{12} - \frac{1}{3}$

$\frac{5}{8} \cdot \frac{3}{3} - \frac{5}{12} \cdot \frac{2}{2} - \frac{1}{3} \cdot \frac{8}{8}$

$\frac{15}{24} - \frac{10}{24} - \frac{8}{24}$

$\frac{15}{24} - \frac{18}{24}$

$\frac{-3}{24}$

$-\frac{1}{8}$

21. $-\frac{3}{10} - (\frac{-2}{15})$

$-\frac{3}{10} + \frac{2}{15}$

$-\frac{3}{10} \cdot \frac{3}{3} + \frac{2}{15} \cdot \frac{2}{2}$

$-\frac{9}{30} + \frac{4}{30}$

$-\frac{5}{30}$

23. $-\frac{4}{5} - (-\frac{3}{4})$

$-\frac{4}{5} + \frac{3}{4}$

$-\frac{4}{5} \cdot \frac{4}{4} + \frac{3}{4} \cdot \frac{5}{5}$

$-\frac{16}{20} + \frac{15}{20}$

$-\frac{1}{20}$

25. $-\frac{5}{7} - (-\frac{3}{5})$

$-\frac{5}{7} + \frac{3}{5}$

$-\frac{5}{7} \cdot \frac{5}{5} + \frac{3}{5} \cdot \frac{7}{7}$

$-\frac{25}{25} + \frac{21}{35}$

$-\frac{4}{35}$

27. -4.5 + 9.2 - (-2.9)
-4.5 + 9.2 + 2.9
12.1 - 4.5
7.6

29. -12.5 + 7.6 - 2.3 - (-6.5)
-12.5 + 7.6 -2.3 + 6.5
14.1 - 14.8
-.7

31. -3.4 - (9.3) - (-3.4) - 4.6
-3.4 - 9.3 + 3.4 - 4.6
3.4 - 17.3
-13.9

33. -4.3 + (-4.1) - (-3.1) + 2
-4.3 -4.1 + 3.1 + 2
5.1 - 8.4
-3.3

35. 43.3 + (-32.8) - (33.5) - .75
43.3 - 32.8 - 33.5 -.75
43.3 - 67.05
-23.75

37. 98.43 - 542.43 - (-42.28) + (-65.50)
98.43 - 542.43 + 42.28 - 65.50
140.71 - 607.93
-467.22

39. -100 + (-153) - (- 12.50)
-100 - 153 + 12.50
12.50 - 253
-240.50

41. 3.432 - (-5.125) - (6.843) - 56.2
3.432 + 5.125 - 6.843 - 56.2
8.557 - 63.043
-54.486

43. -76.198 - (43.2435)
-76.198 - 43.2435
-119.4415

45. 0 - (-1) - (1) - 1 - 1 + (-1) + 0
0 + 1 - 1 - 1 - 1 - 1 + 0
1 - 4
-3

47. 2 - 1 - (-1) - (-1) - (-1) - (4) - 12
2 - 1 + 1 + 1 + 1 -4 -12
5 - 17
-12

49. 0 - 234 - 1 - 0 + 1
1 - 235
-234

51. $\frac{1}{6} - (-\frac{1}{3})$

$\frac{1}{6} + \frac{1}{3}$

$\frac{1}{6} + \frac{1}{3} \cdot \frac{2}{2}$

$\frac{1}{6} + \frac{2}{6}$

$\frac{3}{6}$

$\frac{1}{2}$

53. $-\frac{11}{12} - (-1)$

$-\frac{11}{12} + 1$

$-\frac{11}{12} + 1 \cdot \frac{12}{12}$

$-\frac{11}{12} + \frac{12}{12}$

$\frac{1}{12}$

55. $-(-\frac{1}{3}) - \frac{3}{5}$

$\frac{1}{3} - \frac{3}{5}$

$\frac{1}{3} \cdot \frac{5}{5} - \frac{3}{5} \cdot \frac{3}{3}$

$\frac{5}{15} - \frac{9}{15}$

$-\frac{4}{15}$

57. $\frac{1}{7} - (-\frac{5}{6})$

$\frac{1}{7} + \frac{5}{6}$

$\frac{1}{7} \cdot \frac{6}{6} + \frac{5}{6} \cdot \frac{7}{7}$

$\frac{6}{42} + \frac{35}{42}$

$\frac{41}{42}$

59. $\frac{7}{3} - (-\frac{-1}{4})$

$\frac{7}{3} - (\frac{1}{4})$

$\frac{7}{3} - \frac{1}{4}$

$\frac{7}{3} \cdot \frac{4}{4} - \frac{1}{4} \cdot \frac{3}{3}$

$\frac{28}{12} - \frac{3}{12}$

$\frac{25}{12}$

61. Which continent has the lowest elevation?
Since -133 is lower than all the other elevations, continent A has the lowest elevation.

63. Find the difference between the highest and the lowest elevation for continent A.

highest - lowest
3,345 - (-133)
3,345 + 133
3,478

65. Find the difference between the highest and the lowest elevation for continent C.

highest - lowest
1,500 - 65
1,435

67. Find the sum of the continent's highest elevations.

3,345 + 2,902 + 1,500 + 2,400
10,147