

Adding and Subtracting Radicals

Name _____ Date _____

Add or Subtract. Leave answers in exact form.

1) $\sqrt{5} - 3\sqrt{5} + -2\sqrt{5}$

2) $4\sqrt{7} + 6\sqrt{7} - 10\sqrt{7}$

3) $\sqrt{2} - 6\sqrt{3} + 5\sqrt{2} + 6\sqrt{2} - 6\sqrt{3}$

4) $2\sqrt{2} + 6\sqrt{2}$

5) $\sqrt{10} - 6\sqrt{10}$

6) $3\sqrt{11} + \sqrt{5} - 6\sqrt{5} + \sqrt{11}$

7) $2\sqrt{3ab} - 3\sqrt{3ab}$

8) $-\sqrt{5wz} + 2\sqrt{5wz}$

9) $-3\sqrt{6x} - 3\sqrt{6x}$

10) $-3\sqrt{2np} + 2\sqrt{2np}$

11) $2\sqrt{6} - 5\sqrt{54}$

12) $-3\sqrt{27k} - 3\sqrt{3k}$

$$13) \sqrt{27a^2b} + a\sqrt{12b}$$

$$14) \sqrt{5y^2} + y\sqrt{45}$$

$$15) \sqrt{147} + \sqrt{363} - \sqrt{3}$$

A. $170\sqrt{3}$
C. $18\sqrt{3}$

B. $77\sqrt{3}$
D. $17\sqrt{3}$

Find the perimeter of the following figures. Leave answers in exact form.

