

Name: _____

Simplifying Radical Expressions

L1S1

Simplify each expression.

1) $8\sqrt{3} + 6\sqrt{3}$

2) $\frac{11\sqrt{20}}{7\sqrt{10}}$

3) $-10\sqrt{2} \times 15\sqrt{2}$

4) $13\sqrt[3]{5} + 14\sqrt[3]{5}$

5) $-\frac{4\sqrt[3]{28}}{\sqrt[3]{4}}$

6) $9\sqrt{7} - 17\sqrt{7}$

7) $19\sqrt[3]{6} - 12\sqrt[3]{6}$

8) $8\sqrt[3]{3} \times 3\sqrt[3]{9}$

Simplifying Radical Expressions

Simplify each expression.

1) $8\sqrt{3} + 6\sqrt{3}$

$$\underline{14\sqrt{3}}$$

2) $\frac{11\sqrt{20}}{7\sqrt{10}}$

$$\underline{\frac{11\sqrt{2}}{7}}$$

3) $-10\sqrt{2} \times 15\sqrt{2}$

$$\underline{-300}$$

4) $13\sqrt[3]{5} + 14\sqrt[3]{5}$

$$\underline{27\sqrt[3]{5}}$$

5) $-\frac{4\sqrt[3]{28}}{\sqrt[3]{4}}$

$$\underline{-4\sqrt[3]{7}}$$

6) $9\sqrt{7} - 17\sqrt{7}$

$$\underline{-8\sqrt{7}}$$

7) $19\sqrt[3]{6} - 12\sqrt[3]{6}$

$$\underline{7\sqrt[3]{6}}$$

8) $8\sqrt[3]{3} \times 3\sqrt[3]{9}$

$$\underline{72}$$