Name : _____ Score : _____

Teacher : _____ Date : _____

Simplify the Radicals

1) $\sqrt{9}$ =

2) $\sqrt{25}$ =

3) $3\sqrt{500}$ =

4) $\sqrt{64}$ =

5) $\sqrt{8}$ =

6) $4\sqrt{294}$ =

7) $\sqrt{121}$ =

8) $8\sqrt{216}$ =

9) $\sqrt{125}$ =

10) $\sqrt{243}$ =

Name : _____ Score : _____

Teacher : _____ Date : _____

Simplify the Radicals

1) $\sqrt{9} = 3$

2) $\sqrt{25} = 5$

3) $3\sqrt{500} = 3\sqrt{100 \times 5} = 3 \times \sqrt{100} \times \sqrt{5} = 3 \times 10 \times \sqrt{5} = 30\sqrt{5}$

4) $\sqrt{64} = 8$

5) $\sqrt{8} = \sqrt{4 \times 2} = \sqrt{4} \times \sqrt{2} = 2\sqrt{2}$

6) $4\sqrt{294} = 4\sqrt{49 \times 6} = 4 \times \sqrt{49} \times \sqrt{6} = 4 \times 7 \times \sqrt{6} = 28\sqrt{6}$

7) $\sqrt{121} = 11$

8) $8\sqrt{216} = 8\sqrt{36 \times 6} = 8 \times \sqrt{36} \times \sqrt{6} = 8 \times 6 \times \sqrt{6} = 48\sqrt{6}$

9) $\sqrt{125} = \sqrt{25 \times 5} = \sqrt{25} \times \sqrt{5} = 5\sqrt{5}$

10) $\sqrt{243} = \sqrt{81 \times 3} = \sqrt{81} \times \sqrt{3} = 9\sqrt{3}$