Name : _____ Score : _____

Teacher : _____ Date : _____

Simplify the Radicals

1) $\sqrt{196}$ =

2) $\sqrt{847}$ =

3) $12\sqrt{320}$ =

4) $\sqrt{150}$ =

5) $\sqrt{36}$ =

6) $\sqrt{100}$ =

7) $\sqrt{8}$ =

8) $5\sqrt{72}$ =

9) $6\sqrt{27}$ =

10) $\sqrt{80}$ =

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Simplify the Radicals

1) $\sqrt{196} = 14$

2) $\sqrt{847} = \sqrt{121 \times 7} = \sqrt{121} \times \sqrt{7} = 11\sqrt{7}$

3) $12\sqrt{320} = 12\sqrt{64 \times 5} = 12 \times \sqrt{64} \times \sqrt{5} = 12 \times 8 \times \sqrt{5} = 96\sqrt{5}$

4) $\sqrt{150} = \sqrt{25 \times 6} = \sqrt{25} \times \sqrt{6} = 5\sqrt{6}$

5) $\sqrt{36} = 6$

6) $\sqrt{100} = 10$

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

8) $5\sqrt{72} = 5\sqrt{36 \times 2} = 5 \times \sqrt{36} \times \sqrt{2} = 5 \times 6 \times \sqrt{2} = 30\sqrt{2}$

9) $6\sqrt{27} = 6\sqrt{9 \times 3} = 6 \times \sqrt{9} \times \sqrt{3} = 6 \times 3 \times \sqrt{3} = 18\sqrt{3}$

10) $\sqrt{80} = \sqrt{16 \times 5} = \sqrt{16} \times \sqrt{5} = 4\sqrt{5}$