

Name

8-7A Lesson Master

Questions on SPUR Objectives  
See pages 521–523 for objectives.

SKILLS

Objective D

In 1 and 2, simplify. Give the exact value.

1.  $\sqrt{405}$

2.  $\sqrt{360}$

In 3–12, simplify. Give the exact value. Assume all variables are positive.

3.  $\sqrt{7} \cdot \sqrt{14}$

4.  $5\sqrt{48}$

5.  $\frac{\sqrt{108}}{\sqrt{6}}$

6.  $\sqrt{36p^3q^4}$

7.  $7\sqrt{240m^8n^2}$

8.  $3\sqrt{20m} \cdot \sqrt{5m}$

9.  $\sqrt{6a^5b} \cdot \sqrt{12ab}$

10.  $\frac{\sqrt{x^5}}{\sqrt{x}}$

11.  $\frac{\sqrt{120x^2y^7}}{\sqrt{8xy}}$

12.  $\sqrt{\frac{9y^{26}}{16z^{10}}}$

In 13–16, write the exact value of the unknown in simplified form.

