Lesson 12.3 Practice: Surface Area of Pyramids and Cones

School Launch · Geometry · Unit 12: Surface Area and Volume · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. A cone has radius 3 and height 4. Find its slant height and total surface area (exact). EASY

2. Find the surface area of a square pyramid with base edge 8 and slant height 14. EASY

3. A cone has radius 8 and height 15. Find its slant height and total surface area (exact). EASY

4. A cone has radius 5 and height 12. Find its slant height and total surface area (exact). MEDIUM

5. Find the surface area of a square pyramid with base edge 10 and slant height 10. MEDIUM

6. Find the surface area of a square pyramid with base edge 7 and slant height 5. MEDIUM

7. Find the surface area of a square pyramid with base edge 2 and slant height 10. MEDIUM

8. Find the surface area of a square pyramid with base edge 7 and slant height 11. HARD

9. A cone has radius 6 and height 8. Find its slant height and total surface area (exact). HARD

10. Find the surface area of a square pyramid with base edge 2 and slant height 8. HARD