

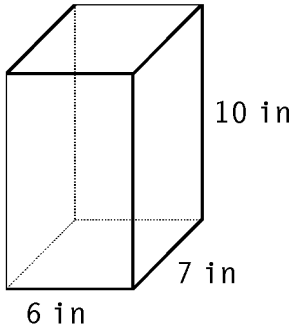
AW Math 10
Worksheet (Surface area)

Name _____

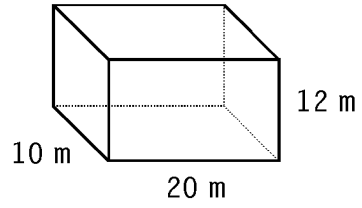
Date _____

Find the surface area.

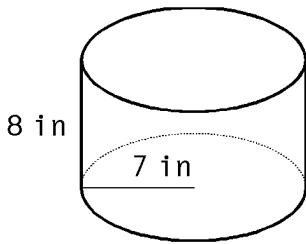
1.



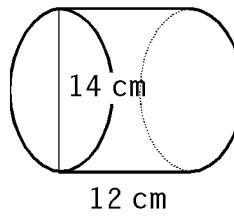
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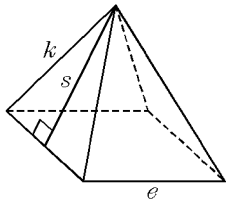
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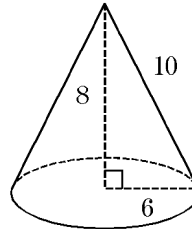
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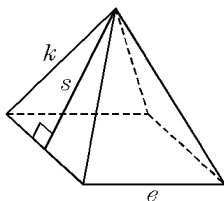
5. $e = 10$ cm, $s = 14$ cm



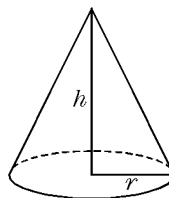
6.



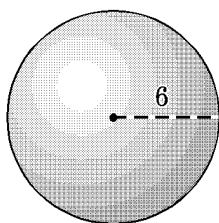
7. A right square pyramid is shown with slant height $s = 8$ and base edge $e = 12$. What is the total surface area of this pyramid?



8. In the diagram, the radius r of the base is 5 cm and the slant height is 13 cm. What is the surface area of the cone?



9. Find the surface area of the given sphere.



10. Find the surface area of a sphere with diameter of 10. HINT: Draw a sketch.

11. Find the surface area of a rectangular prism with length $l = 5$ millimeters, width $w = 1\frac{1}{4}$ millimeters and height $h = 3\frac{3}{4}$ millimeters. HINT: Draw a sketch.

12. Find the surface area of a cylinder with radius $r = 12$ inches and height $h = 11$ inches. HINT: Draw a sketch.

13. The diameter of a cone measures 8 feet and the slant height is 9 feet. Find the volume of the cone. HINT: Draw a sketch.

14. Each side of the base of a regular triangular pyramid measures 12 units and has a slant height of 20 units. Find the total surface area of the pyramid. HINT: Draw a sketch.

1.
Answer: $344 \text{ in}^2, 420 \text{ in}^3$
CodePath: PRE.OH.1
2.
Answer: $1120 \text{ m}^2, 2400 \text{ m}^3$
CodePath: PRE.OH.5
3.
Answer: $659.4 \text{ in}^2, 1230.88 \text{ in}^3$
CodePath: PRE.OI.1
4.
Answer: $835.24 \text{ cm}^2, 1846.32 \text{ cm}^3$
CodePath: PRE.OI.9
5.
CodePath: PRE.OJ.5
6.
CodePath: PRE.OJ.9
7.
CodePath: GEO.KI.1
8.
CodePath: GEO.KH.21
9.
Answer: $144\pi \text{ units}^2$
CodePath: MMA.OD.1
10.
CodePath: MMA.OD.5
11.
CodePath: PRE.OK.9
12.
CodePath: PRE.OK.17
13.
CodePath: MMA.OC.55
14.
CodePath: MMA.OB.5