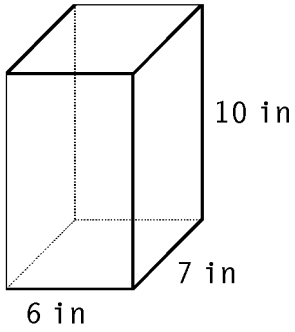AW Math 10

Worksheet (Volume)

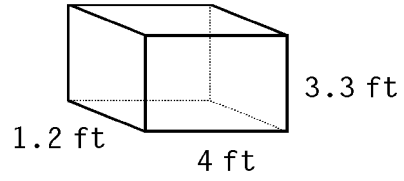Name _____   Date _____
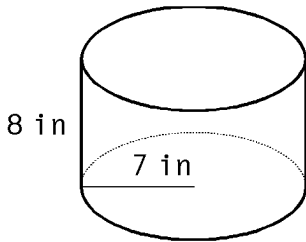
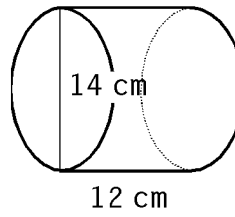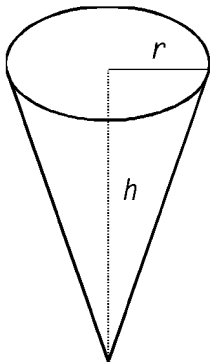Find the volume.

1.

10 in

7 in

6 in

2.

3.3 ft

1.2 ft

4 ft

3.

8 in

7 in

4.

14 cm

12 cm

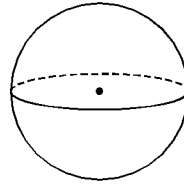5. $r = 3\,\text{m}, \ h = 8\,\text{m}$

r

h

6. $s = 10\,\text{ft}, \ h = 12\,\text{ft}$

h

s

s
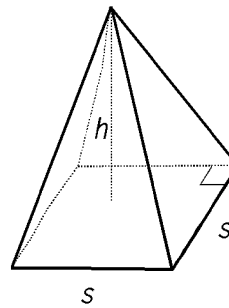
7. Find the volume of the given sphere.

6
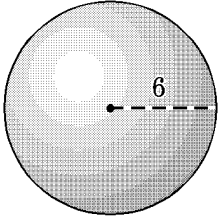
8. If the diameter of the sphere shown is 10, what is the exact volume of the sphere?

9. $B = 12\,\text{cm}^2$, $h = 5\,\text{cm}$

h

10. $B = 10\,\text{cm}^2$, $h = 11\,\text{cm}$

h
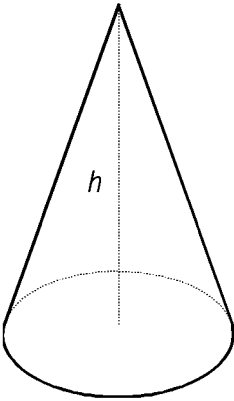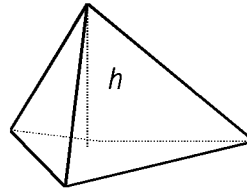
11. A rectangular prism has length $l = 8$ inches, width $w = 6$ inches and height $h = 2$ inches. Find the volume of the rectangular prism.

12. Find the volume of a cylinder with radius $r = 3$ centimeters and height $h = 6$ centimeters. (Use $\pi = 3.14$.)

13. Find the volume of a pyramid with base $B = 16$ feet^2 and height $h = 9$ feet.

14. Find the volume of a cone with base $B = 24$ feet^2 and height $h = 10$ feet.

15. What is the volume of a sphere with a diameter of 12.6 cm?

1.
Answer: $344\,\text{in}^2$, $420\,\text{in}^3$
CodePath: PRE.OH.1

2.
Answer: $43.92\,\text{ft}^2$, $15.84\,\text{ft}^3$
CodePath: PRE.OH.9

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.
Answer: $75.36\,\text{m}^3$
CodePath: PRE.OJ.9

6.
Answer: $400\,\text{ft}^3$
CodePath: PRE.OJ.13

7.
Answer: $288\pi\ \text{units}^3$
CodePath: MMA.OD.14

8.
Answer: $\frac{500\pi}{3}\ \text{units}^3$
CodePath: GEO.KJ.3

9.
Answer: $20\,\text{cm}^3$
CodePath: PRE.OJ.1

10.
Answer: $36.67\,\text{cm}^3$
CodePath: PRE.OJ.5

11.
Answer: $96\,\text{in}^3$
CodePath: PRE.OL.1

12.
Answer: $169.56\,\text{cm}^3$
CodePath: PRE.OL.17

13.
CodePath: PRE.OL.41

14.
CodePath: PRE.OL.57

15.
CodePath: GEO.KJ.8