Name _____ Date _____

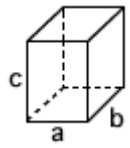
Volume and Surface Area

Fill in the missing values for a rectangular prism.

1.		2.		3.	
length	13	length	6	length	5.6
width	10	width	_____	width	_____
height	_____	height	9	height	11.2
surface area	_____	surface area	438	surface area	_____
volume	650	volume	_____	volume	878.08

Find the volume of each solid to the nearest tenth. (*use π = 3.14*)

4.

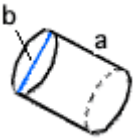


a = 30 ft
b = 29 ft
c = 70 ft

5.

a = 1.8 yd
b = 61.3 yd

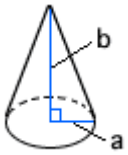
6.



a = 2 cm
b = 18 cm

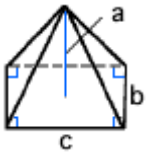
Find the volume of each solid to the nearest tenth. (*use π = 3.14*)

7.



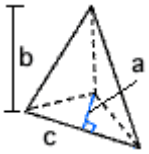
a = 7.7 ft
b = 8.4 ft

8.



a = 6 cm
b = 6 cm
c = 5 cm

9.



a = 3 m
b = 6 m
c = 8 m

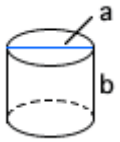
Find the volume of each solid to the nearest tenth. (*use π = 3.14*)

10. cylinder: radius = 12 yd, height = 13 yd

11. cylinder: diameter = 15 km, height = 6 km

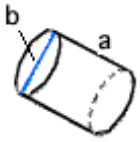
Find the surface area of each solid to the nearest tenth. (*use π = 3.14*)

12.



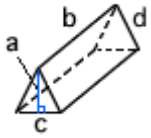
a = 38 cm
b = 9 cm

13.



a = 34 mm
b = 4 mm

14.



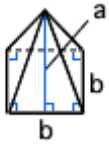
a = 40 in
b = 52 in
c = 18 in
d = 41 in

Find the surface area of each solid to the nearest tenth. (*use π = 3.14*)

15.

a = 8 mm

16.



a = 5.7 in
b = 16 in
c = 16 in

17.

a = 2.57 cm

Complete.

18. A water tank has been purchased for the farm. It will be used to water cattle. It is an oval shaped metal container that is 2.5 feet tall. The area of the bottom of the tank is 10.2 square feet. If the cattle drink one hundred ninety-six cubic feet of water a day, how many times per day will the tank have to be filled?

19. Captain Howard had his crew paint the smokestack on his ship the Sea Snail. The smokestack is shaped like a cylinder and is 41 feet 6 inches tall. The radius of the smokestack's base is five feet. What is the surface area of the smokestack?