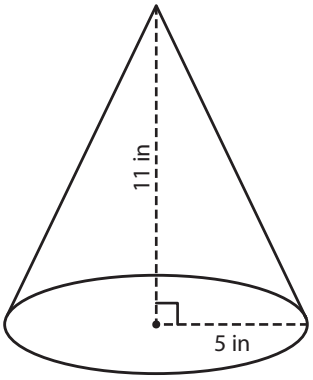
Name : _____

Volume - Cone

Integers: MS1

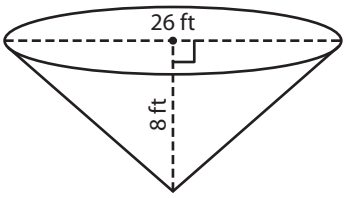
A) Find the volume of each cone. Round your answer to two decimal places. (use π = 3.14)

1)



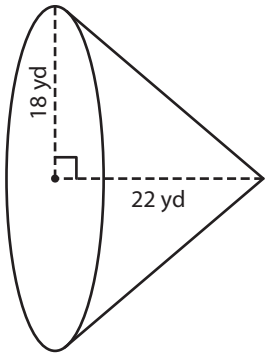
Volume = _____

2)



Volume = _____

3)



Volume = _____

B) Find the volume of each cone from the given parameters. Round your answer to two decimal places. (use π = 3.14)

4) radius = 20 ft ; height = 23 ft

Volume = _____

5) height = 7 yd ; diameter = 24 yd

Volume = _____

6) diameter = 19 yd ; height = 13 yd

Volume = _____

7) height = 6 in ; radius = 4 in

Volume = _____

8) The roof of a castle is in the shape of a cone. It has a height of 12 feet and a diameter of 6 feet, how much air occupies the roof? (use π = 3.14)

_____

Name : _____

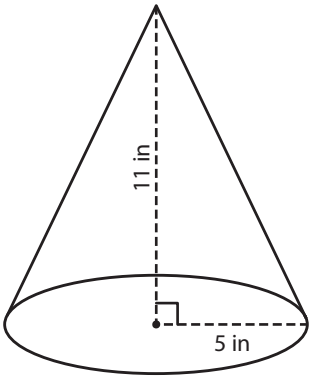
Answer key

Volume - Cone

Integers: MS1

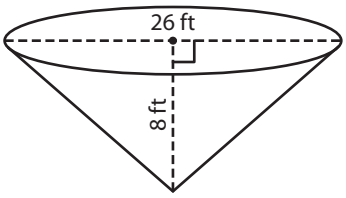
A) Find the volume of each cone. Round your answer to two decimal places. (use $\pi = 3.14$)

1)



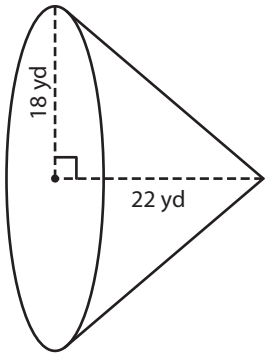
Volume = **287.83 in³**

2)



Volume = **1,415.09 ft³**

3)



Volume = **7,460.64 yd³**

B) Find the volume of each cone from the given parameters. Round your answer to two decimal places. (use $\pi = 3.14$)

4) radius = 20 ft ; height = 23 ft

Volume = **9,629.33 ft³**

5) height = 7 yd ; diameter = 24 yd

Volume = **1,055.04 yd³**

6) diameter = 19 yd ; height = 13 yd

Volume = **1,228 yd³**

7) height = 6 in ; radius = 4 in

Volume = **100.48 in³**

8) The roof of a castle is in the shape of a cone. It has a height of 12 feet and a diameter of 6 feet, how much air occupies the roof? (use $\pi = 3.14$)

113.04 cubic feet