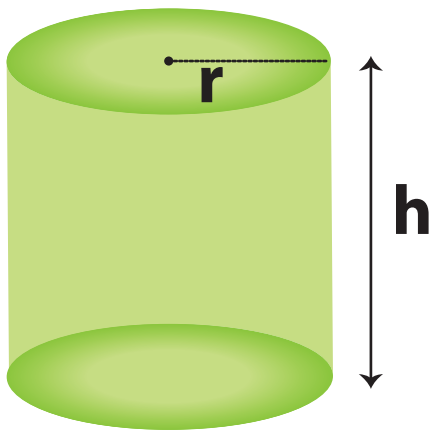
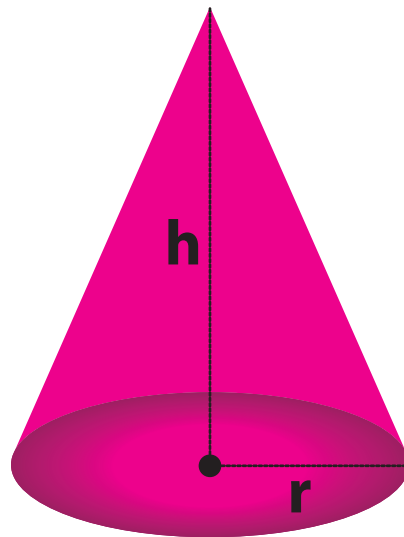


8th
Grade

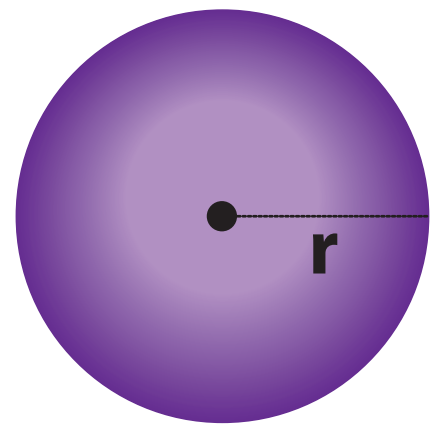
Volumes



$$V = \pi r^2 h$$



$$V = \frac{1}{3} \pi r^2 h$$



$$V = \frac{4}{3} \pi r^3$$

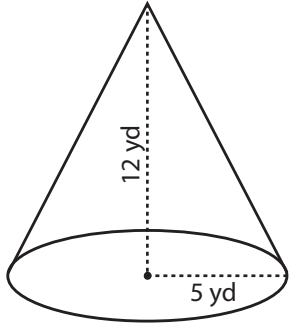
Workbook 1

Volume - Cone

E

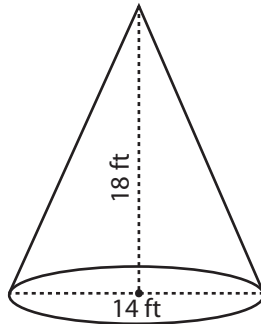
Find the exact volume of each cone.

1)



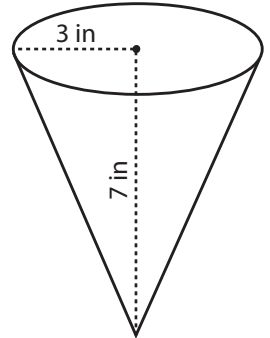
Volume = _____

2)



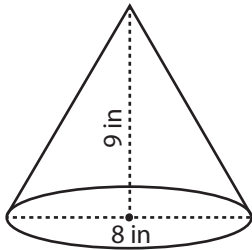
Volume = _____

3)



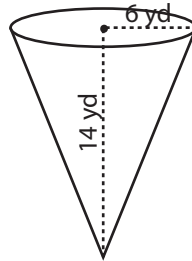
Volume = _____

4)



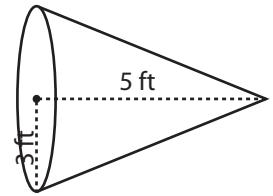
Volume = _____

5)



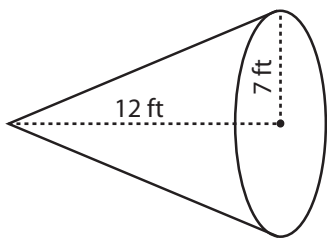
Volume = _____

6)



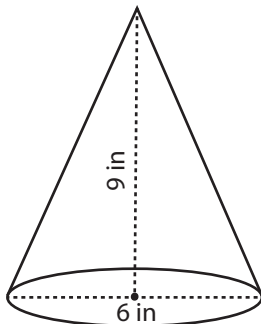
Volume = _____

7)



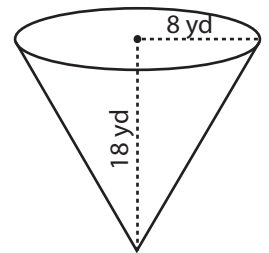
Volume = _____

8)



Volume = _____

9)



Volume = _____

10) A party hat has a diameter of 18 feet and a height of 25 feet. Find the volume of air it can occupy.

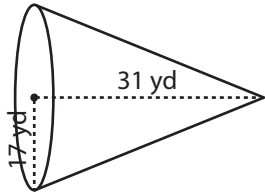
Volume = _____

Volume - Cone

M

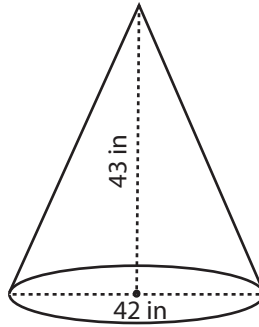
Find the volume of each cone. Round the answer to nearest tenth. (use $\pi = 3.14$)

1)



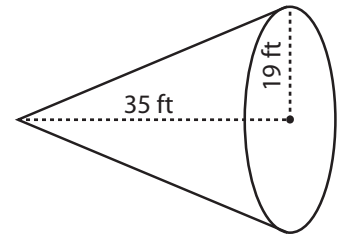
Volume = _____

2)



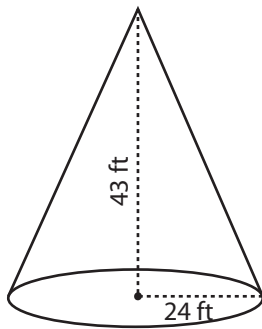
Volume = _____

3)



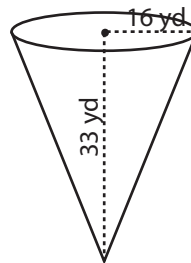
Volume = _____

4)



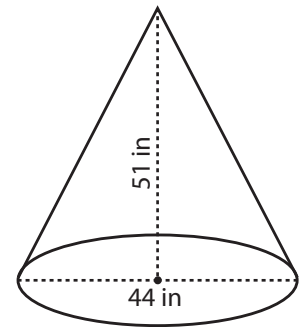
Volume = _____

5)



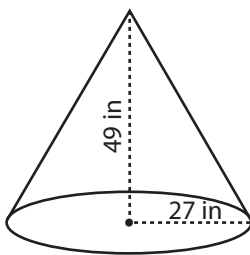
Volume = _____

6)



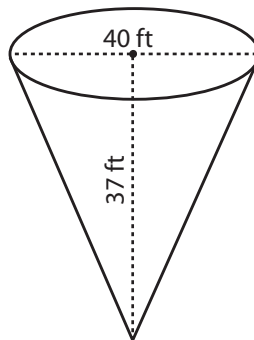
Volume = _____

7)



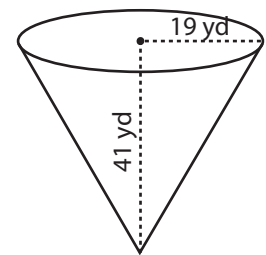
Volume = _____

8)



Volume = _____

9)



Volume = _____

10) A conical flask has a diameter of 20 feet and a height of 18 feet. Find the volume of air it can occupy.

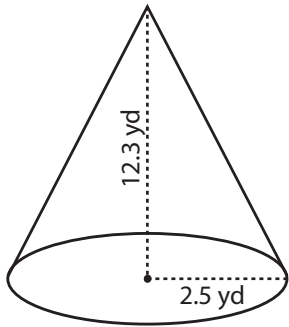
Volume = _____

Volume - Cone

D

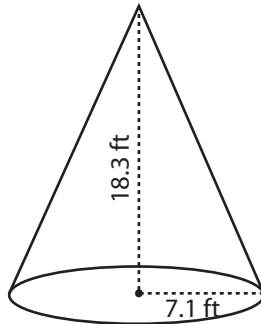
Find the volume of each cone. Round the answer to two decimal places. (use $\pi = 3.14$)

1)



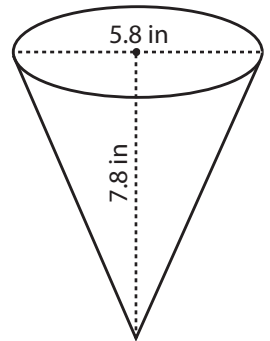
Volume = _____

2)



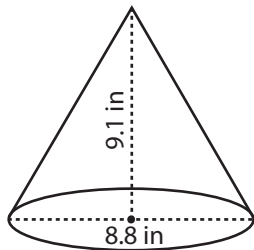
Volume = _____

3)



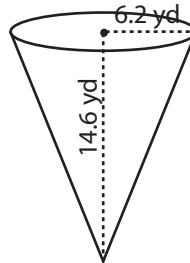
Volume = _____

4)



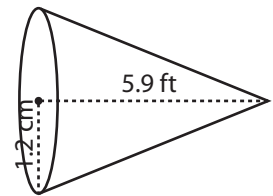
Volume = _____

5)



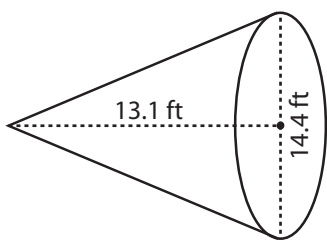
Volume = _____

6)



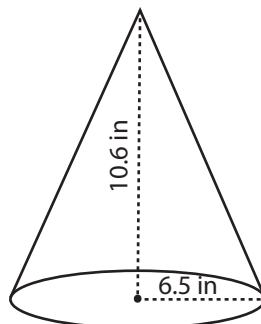
Volume = _____

7)



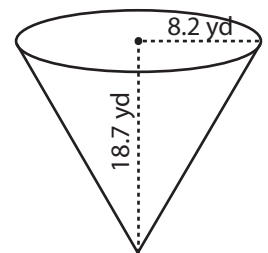
Volume = _____

8)



Volume = _____

9)



Volume = _____

10) A conical tank has a radius of 18.3 inches and a height of 48.6 inches. Find the volume of the tank.

Volume = _____

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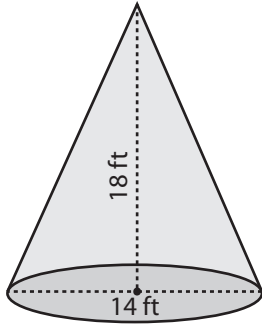
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Volume - Mixed Shapes

E

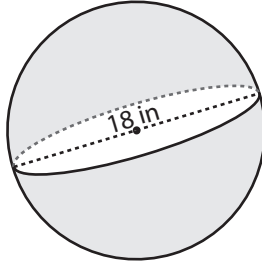
Find the exact volume of each shape.

1)



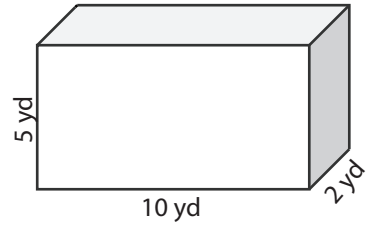
Volume = _____

2)



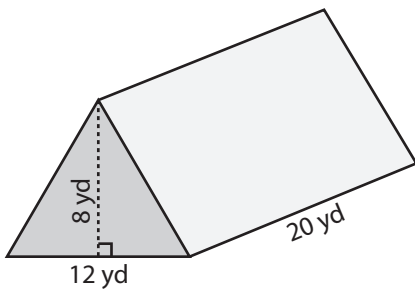
Volume = _____

3)



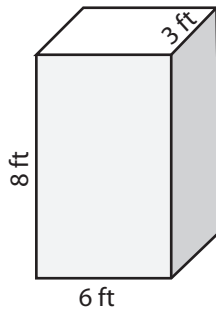
Volume = _____

4)



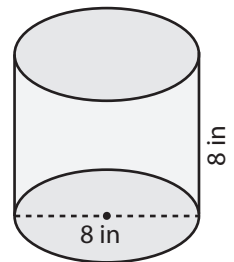
Volume = _____

5)



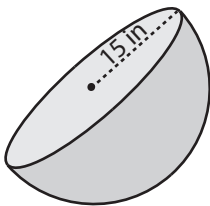
Volume = _____

6)



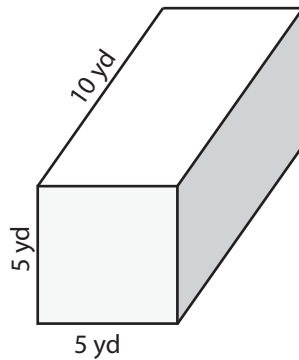
Volume = _____

7)



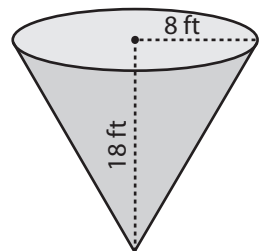
Volume = _____

8)



Volume = _____

9)



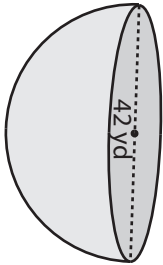
Volume = _____

Volume - Mixed Shapes

M

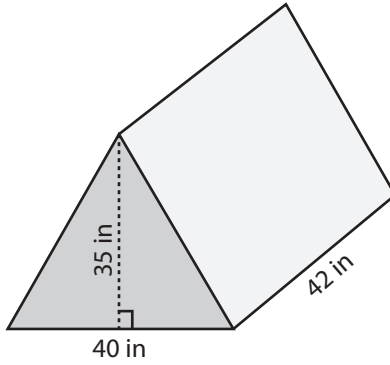
Find the volume of each shape. Round the answer to nearest tenth. (use $\pi = 3.14$)

1)



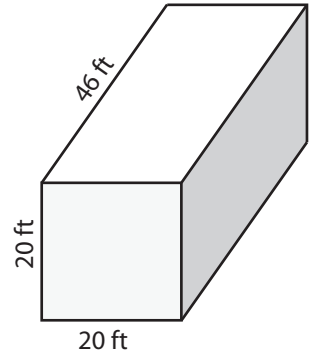
Volume = _____

2)



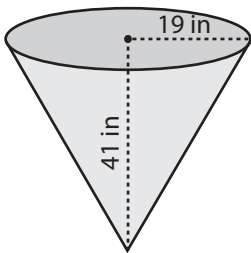
Volume = _____

3)



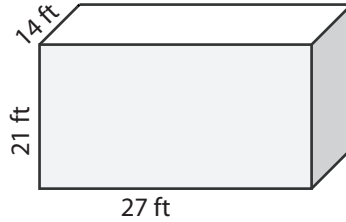
Volume = _____

4)



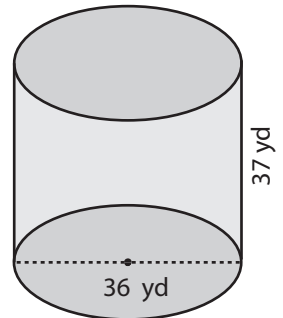
Volume = _____

5)



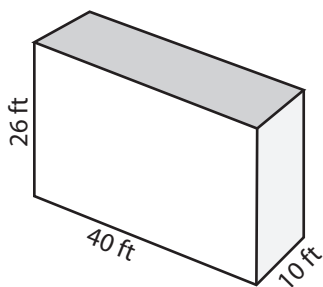
Volume = _____

6)



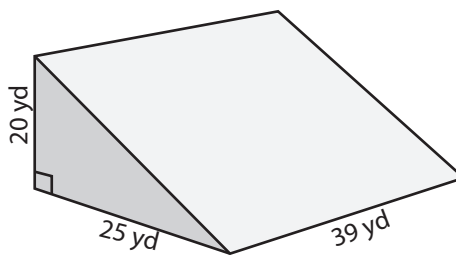
Volume = _____

7)



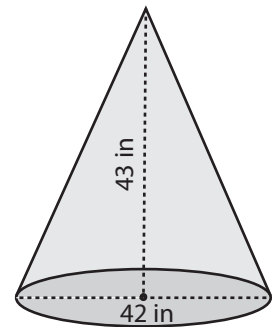
Volume = _____

8)



Volume = _____

9)



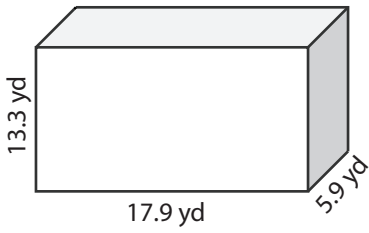
Volume = _____

Volume - Mixed Shapes

D

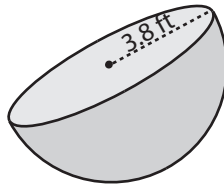
Find the volume of each shape. Round the answer to two decimal places. (use $\pi = 3.14$)

1)



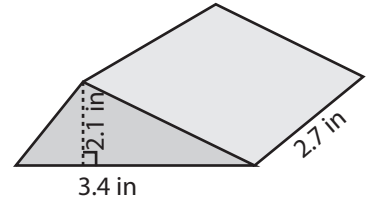
Volume = _____

2)



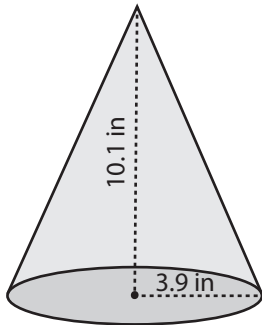
Volume = _____

3)



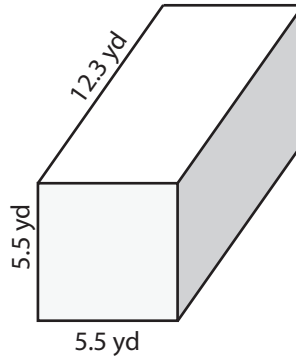
Volume = _____

4)



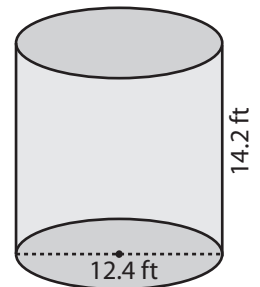
Volume = _____

5)



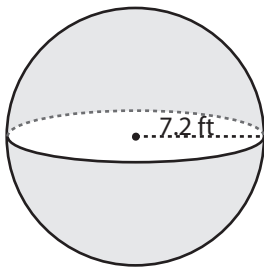
Volume = _____

6)



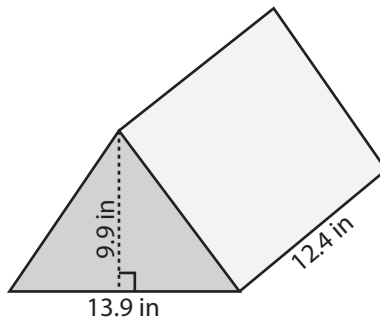
Volume = _____

7)



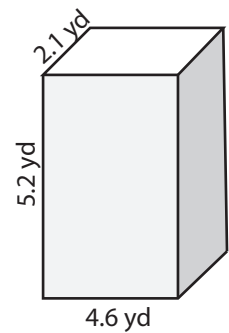
Volume = _____

8)



Volume = _____

9)



Volume = _____