

Name : _____

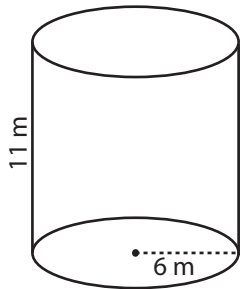
Score : _____

Volume - Cylinder

ES1

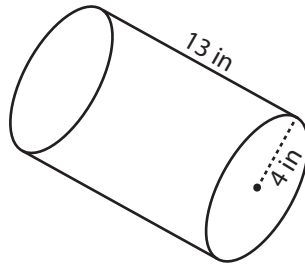
Find the exact volume of each cylinder.

1)



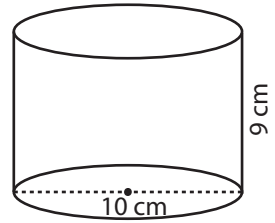
Volume = _____

2)



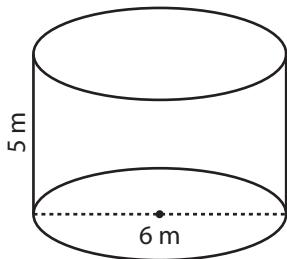
Volume = _____

3)



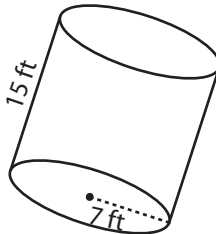
Volume = _____

4)



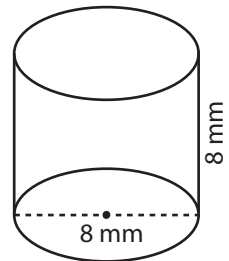
Volume = _____

5)



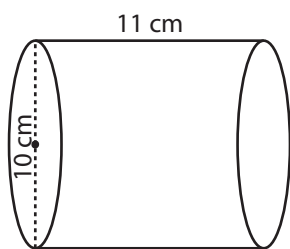
Volume = _____

6)



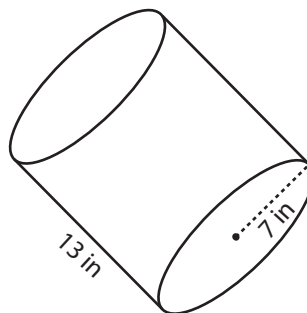
Volume = _____

7)



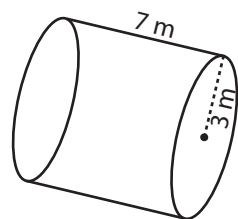
Volume = _____

8)



Volume = _____

9)



Volume = _____

10) The cross-section of a pipe has a width of 6 centimeter and height of 15 centimeter. Calculate the volume of the pipe.

Volume = _____

Name : _____

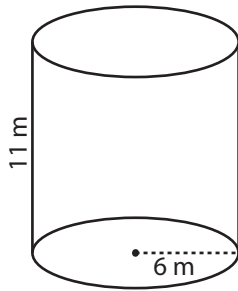
Score : _____

Answer Key**Volume - Cylinder**

ES1

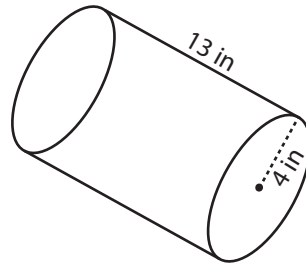
Find the exact volume of each cylinder.

1)



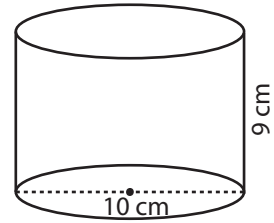
Volume = $396\pi \text{ m}^3$

2)



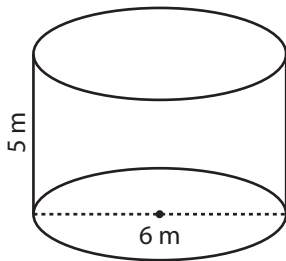
Volume = $208\pi \text{ in}^3$

3)



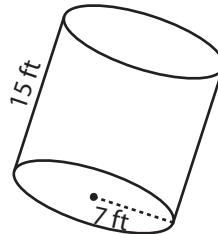
Volume = $225\pi \text{ cm}^3$

4)



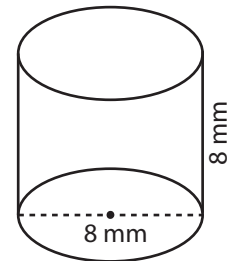
Volume = $45\pi \text{ m}^3$

5)



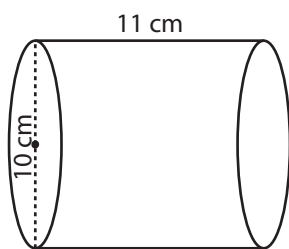
Volume = $735\pi \text{ ft}^3$

6)



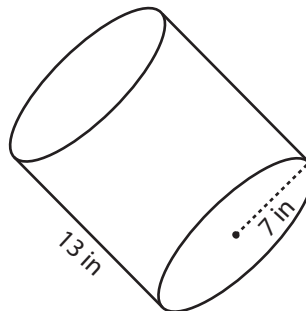
Volume = $128\pi \text{ mm}^3$

7)



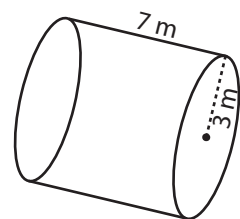
Volume = $275\pi \text{ cm}^3$

8)



Volume = $637\pi \text{ in}^3$

9)



Volume = $63\pi \text{ m}^3$

10) The cross-section of a pipe has a width of 6 centimeter and height of 15 centimeter. Calculate the volume of the pipe.

Volume = $135\pi \text{ cm}^3$

Name : _____

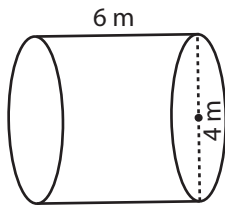
Score : _____

Volume - Cylinder

ES2

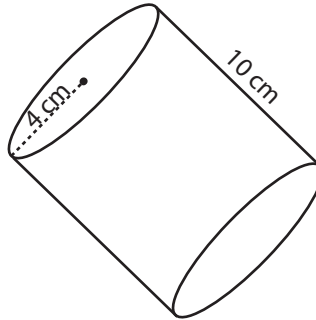
Find the exact volume of each cylinder.

1)



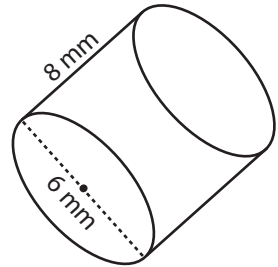
Volume = _____

2)



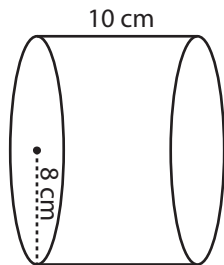
Volume = _____

3)



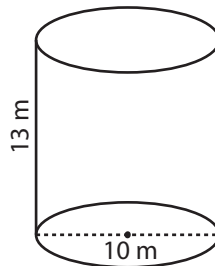
Volume = _____

4)



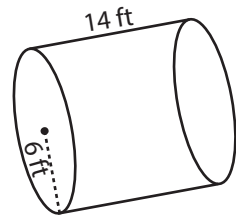
Volume = _____

5)



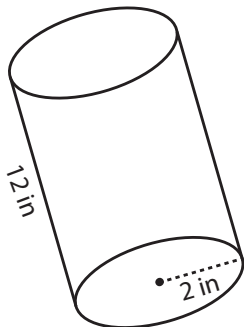
Volume = _____

6)



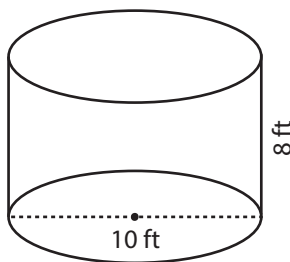
Volume = _____

7)



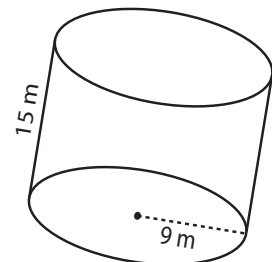
Volume = _____

8)



Volume = _____

9)



Volume = _____

10) A cylindrical tube has a radius of 4 inches and a height of 14 inches. What is the volume of the tube?

Volume = _____

Name : _____

Answer Key

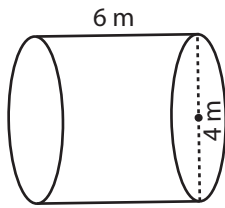
Score : _____

Volume - Cylinder

ES2

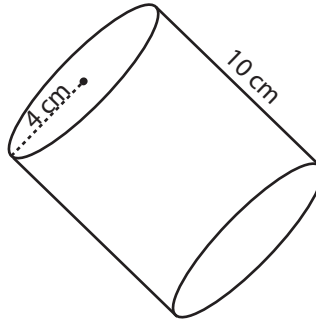
Find the exact volume of each cylinder.

1)



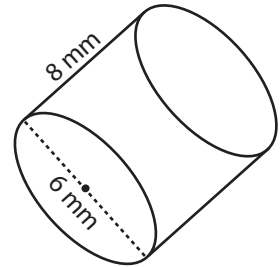
Volume = $24\pi \text{ m}^3$

2)



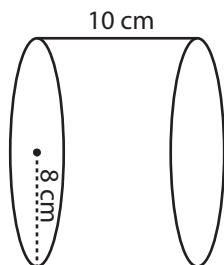
Volume = $160\pi \text{ cm}^3$

3)



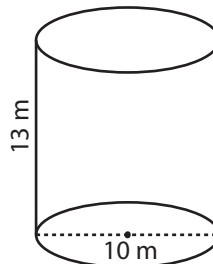
Volume = $72\pi \text{ mm}^3$

4)



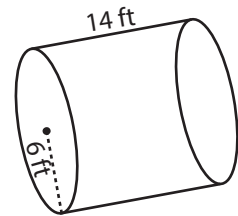
Volume = $640\pi \text{ cm}^3$

5)



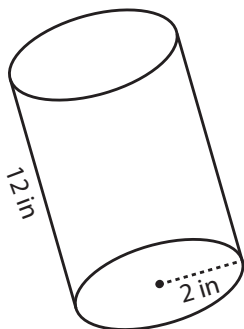
Volume = $325\pi \text{ m}^3$

6)



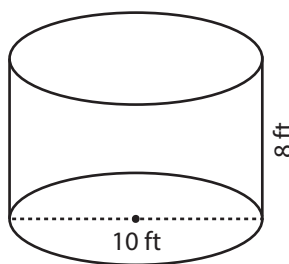
Volume = $504\pi \text{ ft}^3$

7)



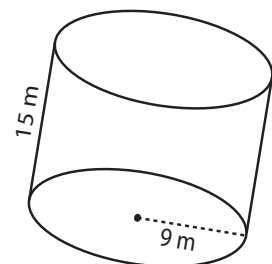
Volume = $48\pi \text{ in}^3$

8)



Volume = $200\pi \text{ ft}^3$

9)



Volume = $1215\pi \text{ m}^3$

10) A cylindrical tube has a radius of 4 inches and a height of 14 inches. What is the volume of the tube?

Volume = $224\pi \text{ in}^3$

Name : _____

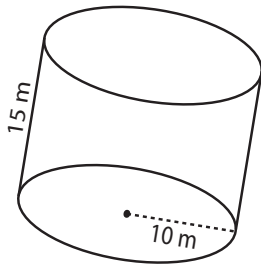
Score : _____

Volume - Cylinder

ES3

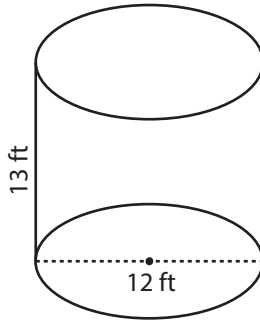
Find the exact volume of each cylinder.

1)



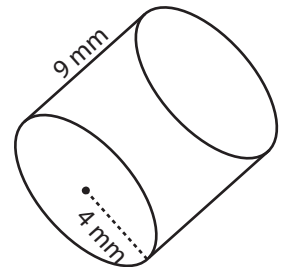
Volume = _____

2)



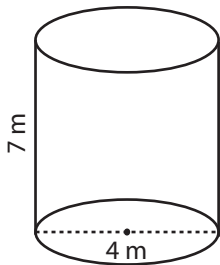
Volume = _____

3)



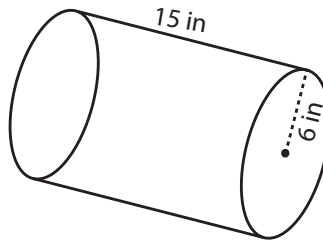
Volume = _____

4)



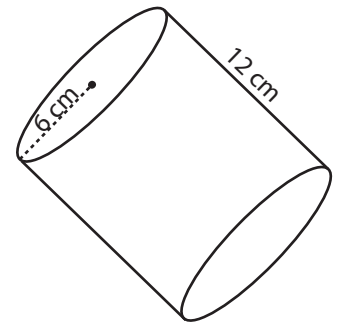
Volume = _____

5)



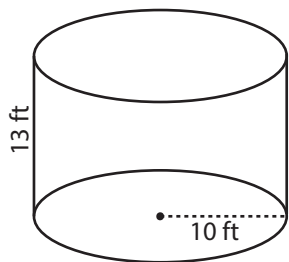
Volume = _____

6)



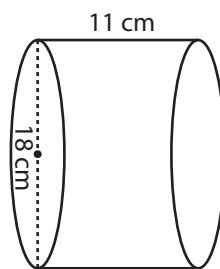
Volume = _____

7)



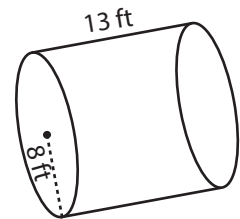
Volume = _____

8)



Volume = _____

9)



Volume = _____

10) A circular bath tub base has a radius of 2 feet and a depth of one foot. What is the maximum volume of water can it hold?

Volume = _____

Name : _____

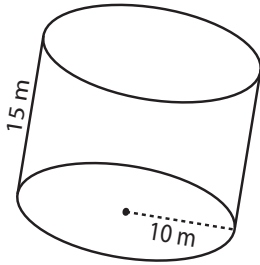
Score : _____

Answer Key**Volume - Cylinder**

ES3

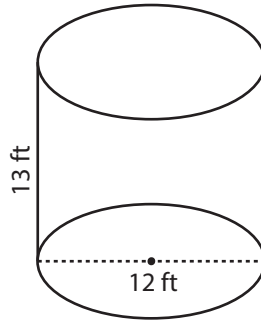
Find the exact volume of each cylinder.

1)



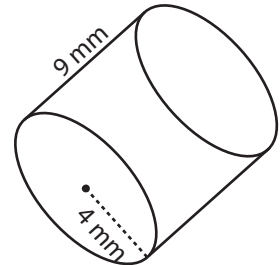
Volume = $1500\pi \text{ m}^3$

2)



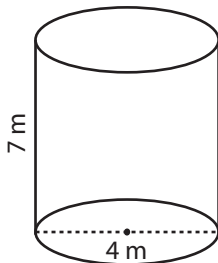
Volume = $468\pi \text{ ft}^3$

3)



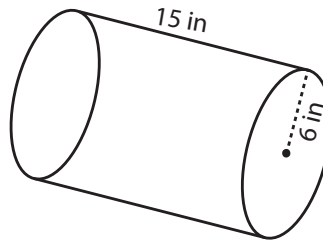
Volume = $144\pi \text{ mm}^3$

4)



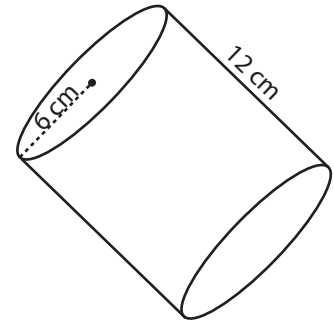
Volume = $28\pi \text{ m}^3$

5)



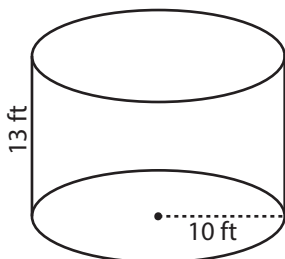
Volume = $540\pi \text{ in}^3$

6)



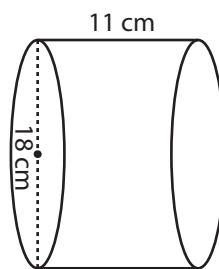
Volume = $432\pi \text{ cm}^3$

7)



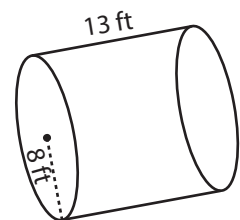
Volume = $1300\pi \text{ ft}^3$

8)



Volume = $891\pi \text{ cm}^3$

9)



Volume = $832\pi \text{ ft}^3$

10) A circular bath tub base has a radius of 2 feet and a depth of one foot. What is the maximum volume of water can it hold?

Volume = $4\pi \text{ ft}^3$

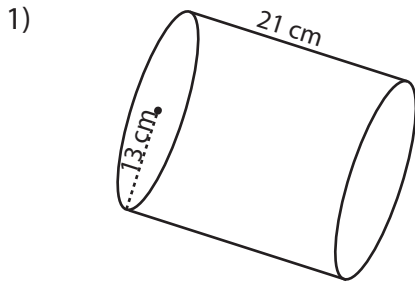
Name : _____

Score : _____

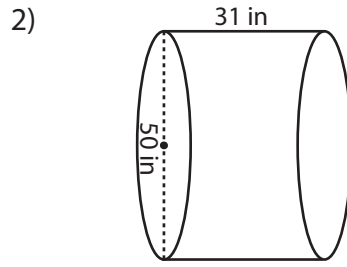
Volume - Cylinder

MS1

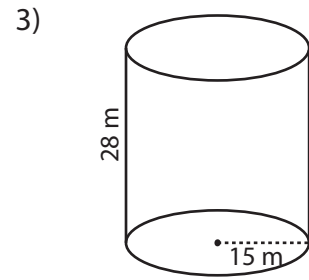
Find the volume of each cylinder. (use $\pi = 3.14$)



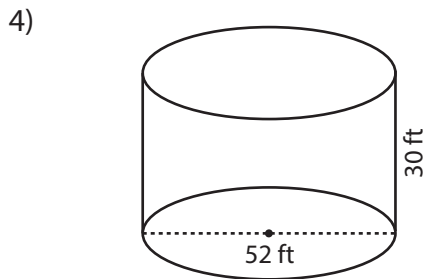
Volume = _____



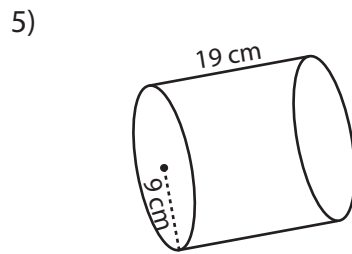
Volume = _____



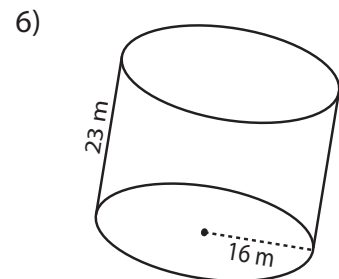
Volume = _____



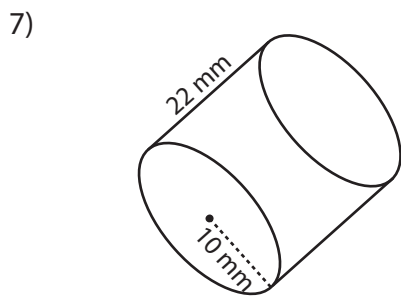
Volume = _____



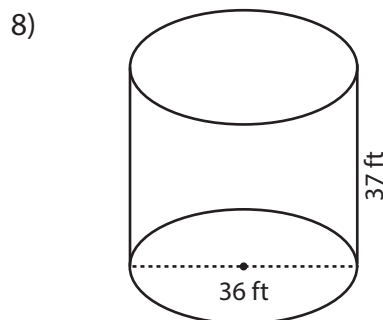
Volume = _____



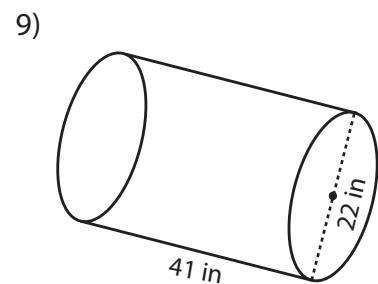
Volume = _____



Volume = _____



Volume = _____



Volume = _____

10) Find the amount of wax required to make a candle with radius 22 millimeter and height 61 millimeter.

Volume = _____

Name : _____

Answer Key

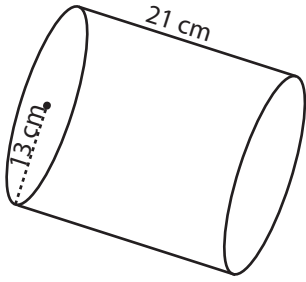
Score : _____

Volume - Cylinder

MS1

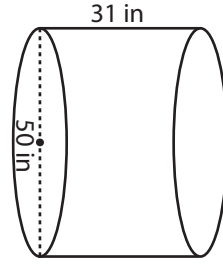
Find the volume of each cylinder. (use $\pi = 3.14$)

1)



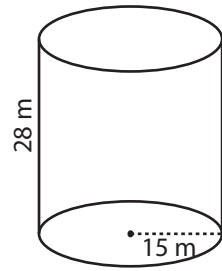
Volume = 11143.86 cm³

2)



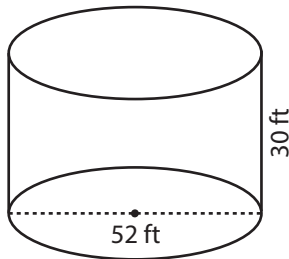
Volume = 60837.5 in³

3)



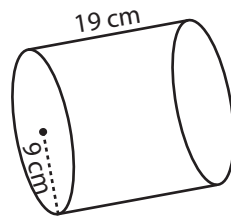
Volume = 19782 m³

4)



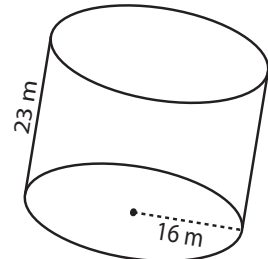
Volume = 63679.2 ft³

5)



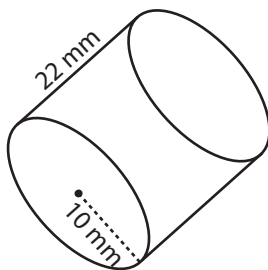
Volume = 4832.46 cm³

6)



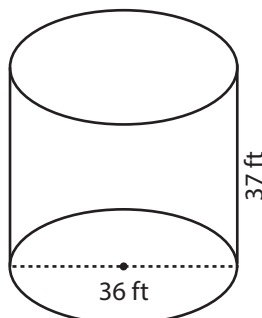
Volume = 18488.32 m³

7)



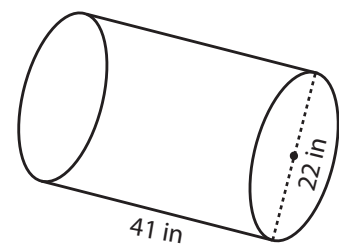
Volume = 6908 mm³

8)



Volume = 37642.32 ft³

9)



Volume = 15577.54 in³

10) Find the amount of wax required to make a candle with radius 22 millimeter and height 61 millimeter.

Volume = 92705.36 mm³

Name : _____

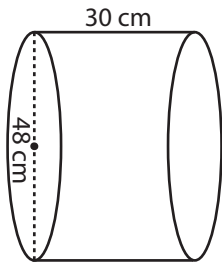
Score : _____

Volume - Cylinder

MS2

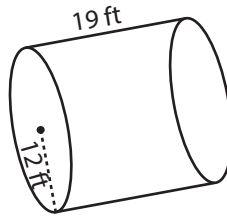
Find the volume of each cylinder. (use $\pi = 3.14$)

1)



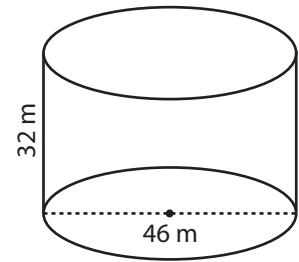
Volume = _____

2)



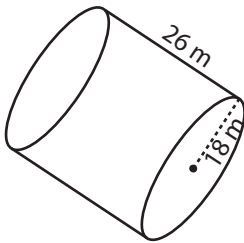
Volume = _____

3)



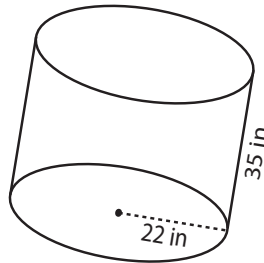
Volume = _____

4)



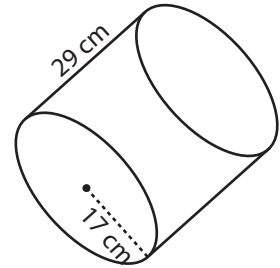
Volume = _____

5)



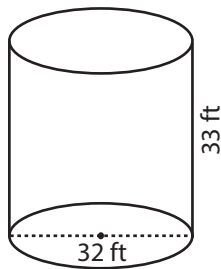
Volume = _____

6)



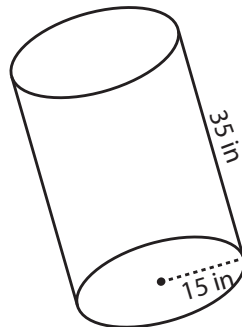
Volume = _____

7)



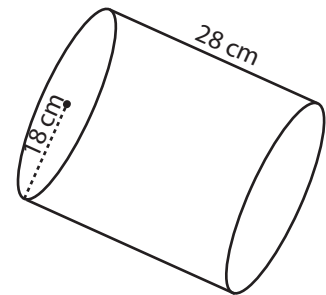
Volume = _____

8)



Volume = _____

9)



Volume = _____

10) A cylindrical container has a radius of 25 inches and a height of 31 inches. What is the volume of the container?

Volume = _____

Name : _____

Answer Key

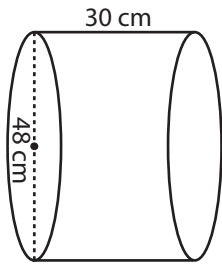
Score : _____

Volume - Cylinder

MS2

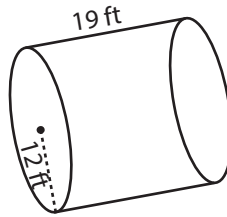
Find the volume of each cylinder. (use $\pi = 3.14$)

1)



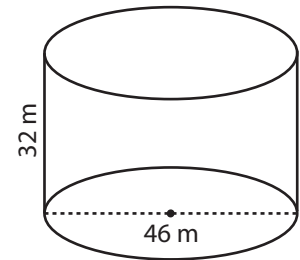
Volume = 54259.2 cm³

2)



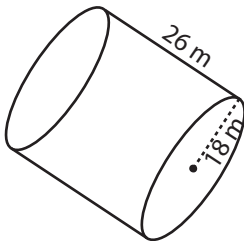
Volume = 8591.04 ft³

3)



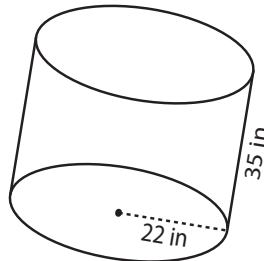
Volume = 53153.92 m³

4)



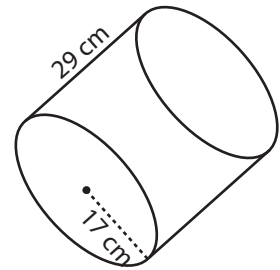
Volume = 26451.36 m³

5)



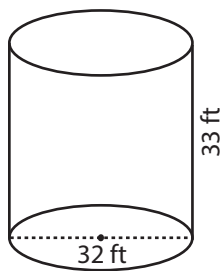
Volume = 53191.6 in³

6)



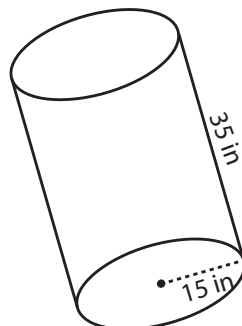
Volume = 26316.34 cm³

7)



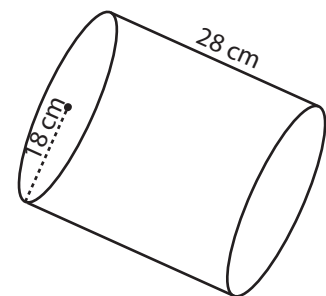
Volume = 26526.72 ft³

8)



Volume = 24727.5 in³

9)



Volume = 28486.08 cm³

10) A cylindrical container has a radius of 25 inches and a height of 31 inches. What is the volume of the container?

Volume = 60837.5 in³

Name : _____

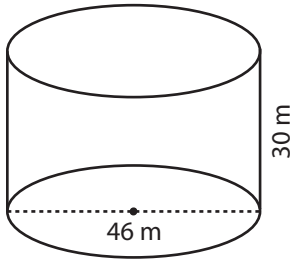
Score : _____

Volume - Cylinder

MS3

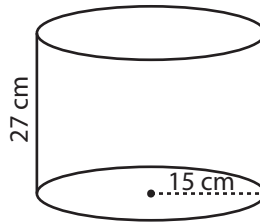
Find the volume of each cylinder. (use $\pi = 3.14$)

1)



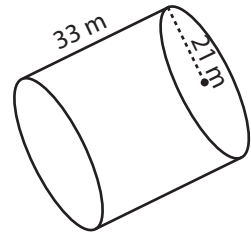
Volume = _____

2)



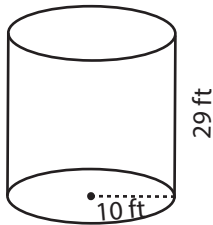
Volume = _____

3)



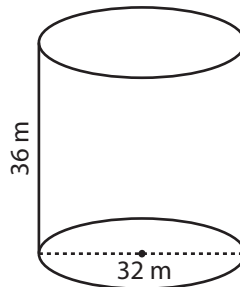
Volume = _____

4)



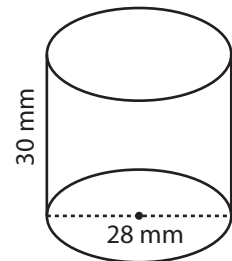
Volume = _____

5)



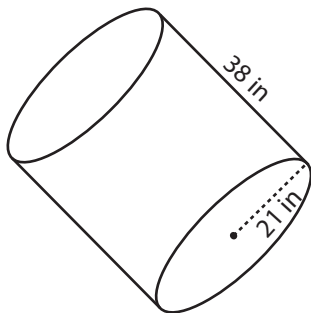
Volume = _____

6)



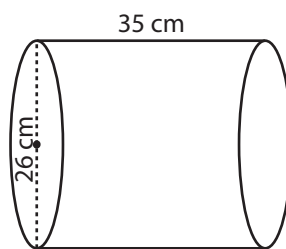
Volume = _____

7)



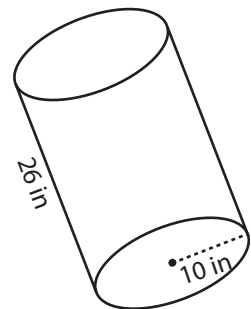
Volume = _____

8)



Volume = _____

9)



Volume = _____

10) A swimming pool with cylindrical base has a diameter of 21 feet and a depth of 5 feet. Find the volume of the pool.

Volume = _____

Name : _____

Answer Key

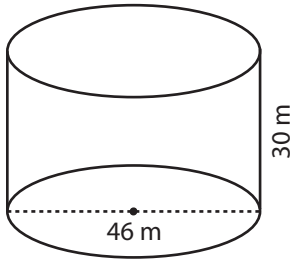
Score : _____

Volume - Cylinder

MS3

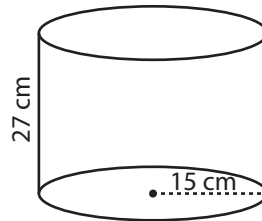
Find the volume of each cylinder. (use $\pi = 3.14$)

1)



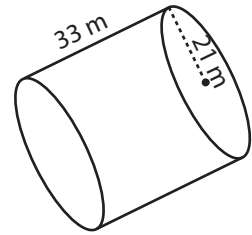
Volume = 49831.8 m³

2)



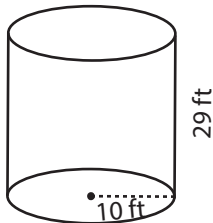
Volume = 19075.5 cm³

3)



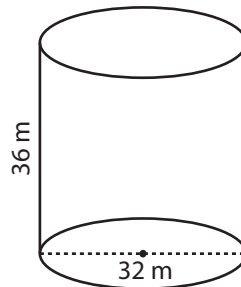
Volume = 45696.42 m³

4)



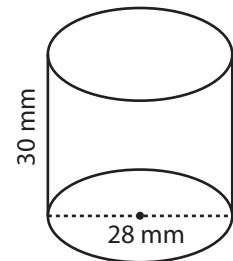
Volume = 9106 ft³

5)



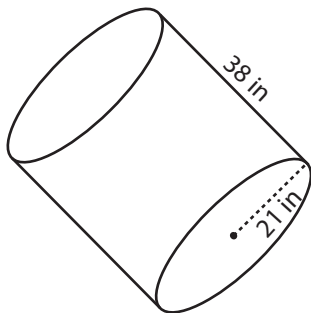
Volume = 28938.24 m³

6)



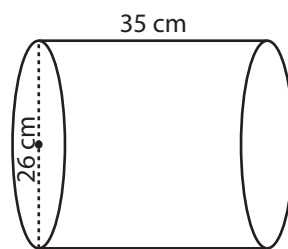
Volume = 18463.2 mm³

7)



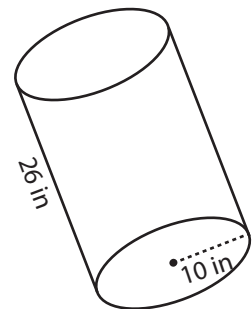
Volume = 52620.12 in³

8)



Volume = 18573.1 cm³

9)



Volume = 8164 in³

10) A swimming pool with cylindrical base has a diameter of 21 feet and a depth of 5 feet. Find the volume of the pool.

Volume = 1730.925 ft³

Name : _____

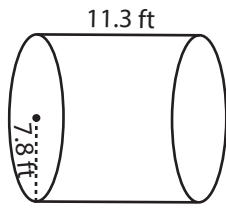
Score : _____

Volume - Cylinder

DS1

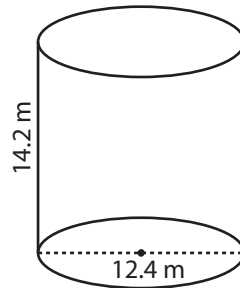
Find the volume of each cylinder. Round the answer to nearest tenth. (use $\pi = 3.14$)

1)



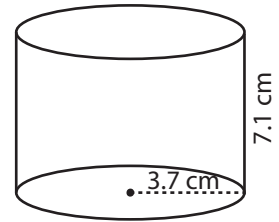
Volume = _____

2)



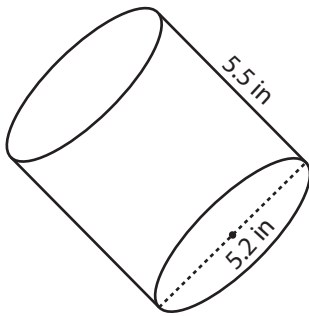
Volume = _____

3)



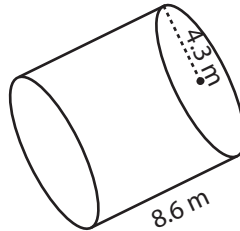
Volume = _____

4)



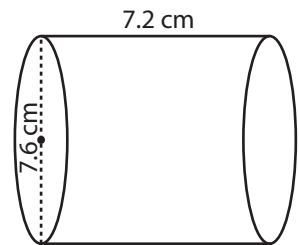
Volume = _____

5)



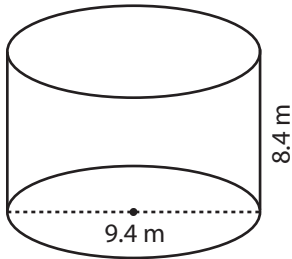
Volume = _____

6)



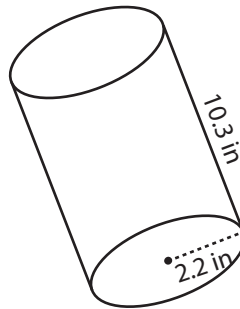
Volume = _____

7)



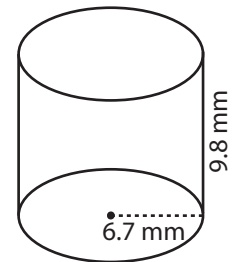
Volume = _____

8)



Volume = _____

9)



Volume = _____

10) The candy is made up of sugar syrup. Find the volume of the syrup required to make a cylindrical candy with a diameter 3.25 centimeter and height 2.15 centimeter.

Volume = _____

Name : _____

Answer Key

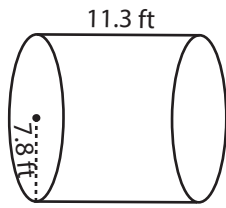
Score : _____

Volume - Cylinder

DS1

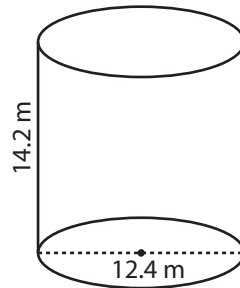
Find the volume of each cylinder. Round the answer to nearest tenth. (use $\pi = 3.14$)

1)



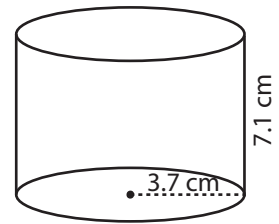
Volume = 2158.7 ft³

2)



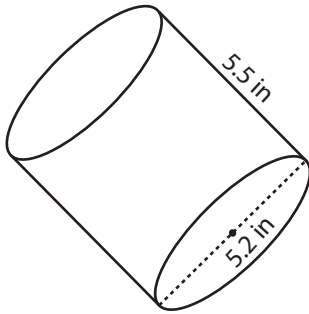
Volume = 1714 m³

3)



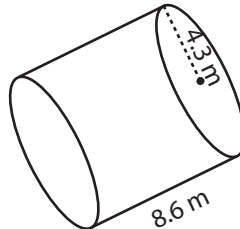
Volume = 305.2 cm³

4)



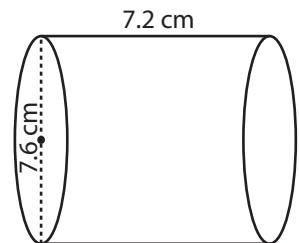
Volume = 116.7 in³

5)



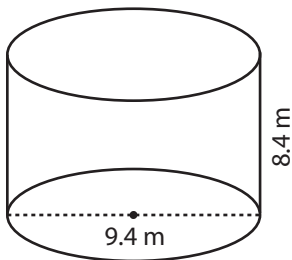
Volume = 499.3 m³

6)



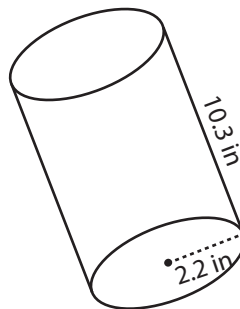
Volume = 326.5 cm³

7)



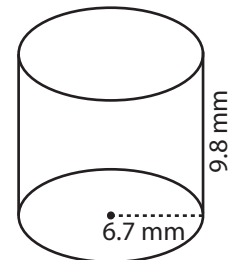
Volume = 582.6 m³

8)



Volume = 156.5 in³

9)



Volume = 1381.4 mm³

10) The candy is made up of sugar syrup. Find the volume of the syrup required to make a cylindrical candy with a diameter 3.25 centimeter and height 2.15 centimeter.

Volume = 17.8 cm³

Name : _____

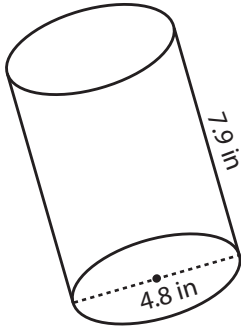
Score : _____

Volume - Cylinder

DS2

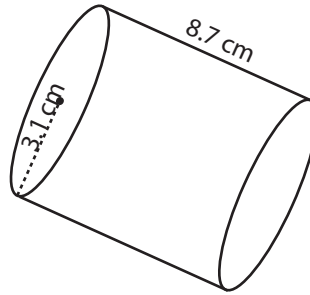
Find the volume of each cylinder. Round the answer to nearest tenth. (use $\pi = 3.14$)

1)



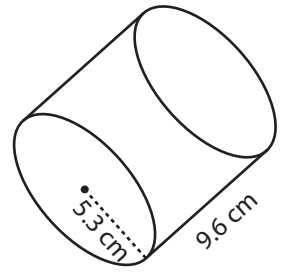
Volume = _____

2)



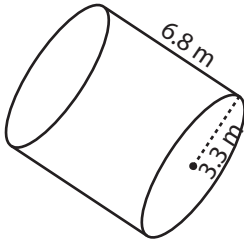
Volume = _____

3)



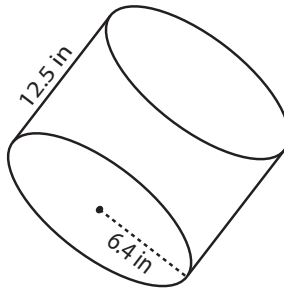
Volume = _____

4)



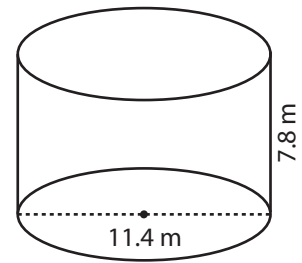
Volume = _____

5)



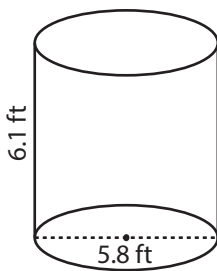
Volume = _____

6)



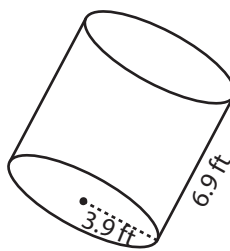
Volume = _____

7)



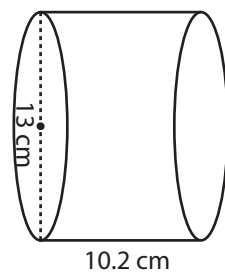
Volume = _____

8)



Volume = _____

9)



Volume = _____

10) Find the volume of a cylindrical gas tank which is 5.5 feet long and has a base diameter 2.7 feet.

Volume = _____

Name : _____

Answer Key

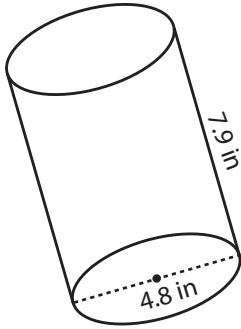
Score : _____

Volume - Cylinder

DS2

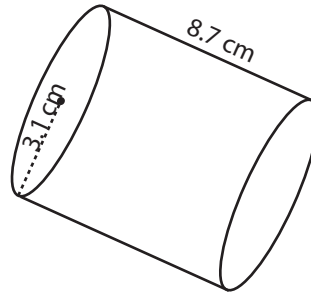
Find the volume of each cylinder. Round the answer to nearest tenth. (use $\pi = 3.14$)

1)



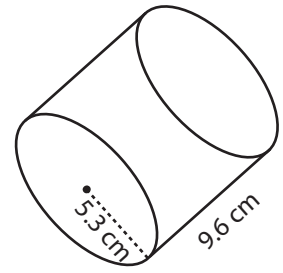
Volume = 142.9 in³

2)



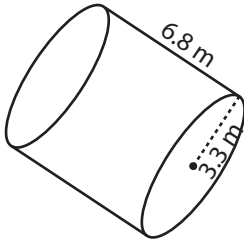
Volume = 262.5 cm³

3)



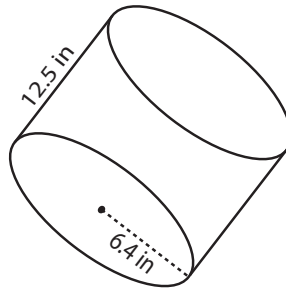
Volume = 846.7 cm³

4)



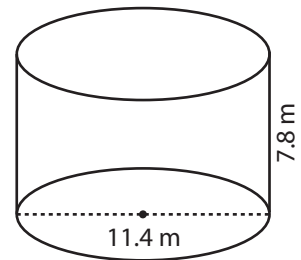
Volume = 232.5 m³

5)



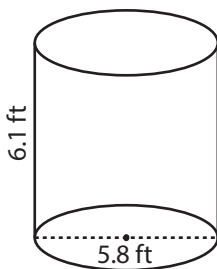
Volume = 1607.7 in³

6)



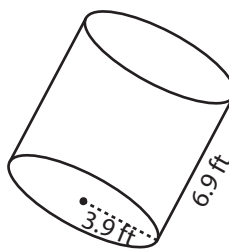
Volume = 795.7 m³

7)



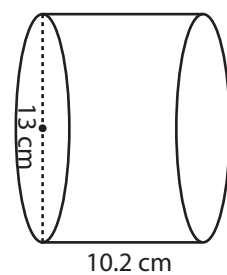
Volume = 161.1 ft³

8)



Volume = 329.5 ft³

9)



Volume = 1353.2 cm³

10) Find the volume of a cylindrical gas tank which is 5.5 feet long and has a base diameter 2.7 feet.

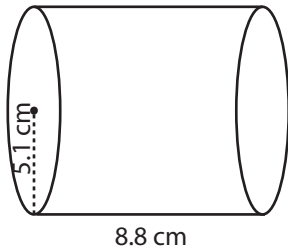
Volume = 31.5 ft³

Volume - Cylinder

DS3

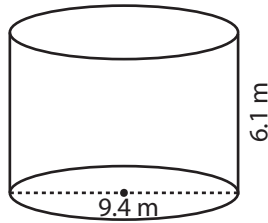
Find the volume of each cylinder. Round the answer to nearest tenth. (use $\pi = 3.14$)

1)



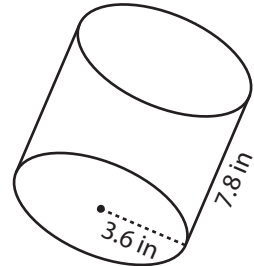
Volume = _____

2)



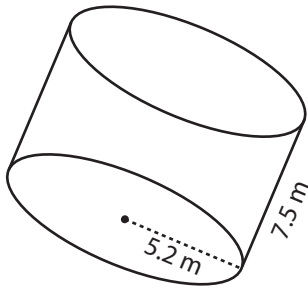
Volume = _____

3)



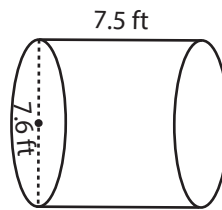
Volume = _____

4)



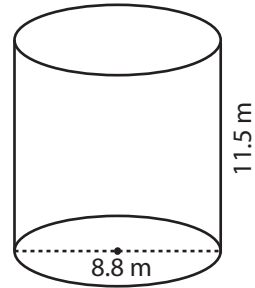
Volume = _____

5)



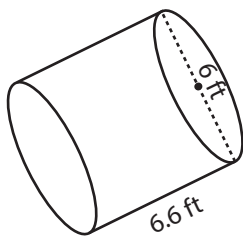
Volume = _____

6)



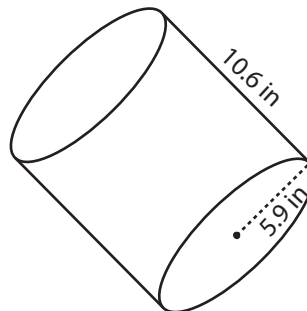
Volume = _____

7)



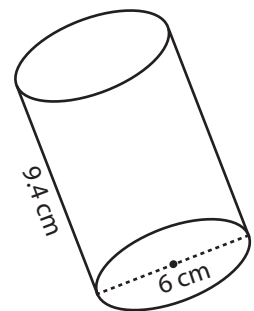
Volume = _____

8)



Volume = _____

9)



Volume = _____

10) A cylindrical wafer biscuit is filled with chocolate. If the inner radius is 4.5 millimeter and the wafer is 10.3 millimeter long, what will be the volume of the chocolate?

Volume = _____

Name : _____

Answer Key

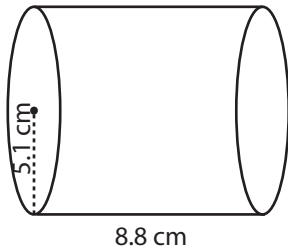
Score : _____

Volume - Cylinder

DS3

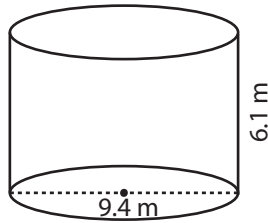
Find the volume of each cylinder. Round the answer to nearest tenth. (use $\pi = 3.14$)

1)



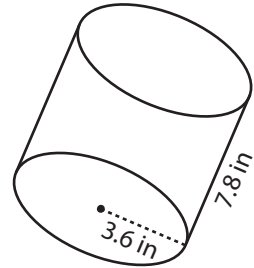
Volume = 718.7 cm³

2)



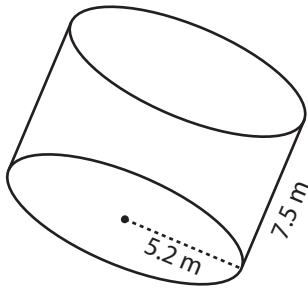
Volume = 423.1 m³

3)



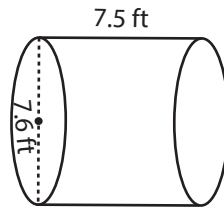
Volume = 317.4 in³

4)



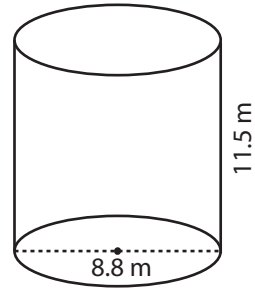
Volume = 636.8 m³

5)



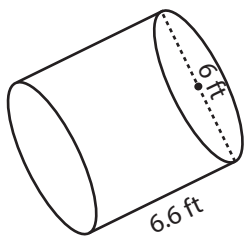
Volume = 340.1 ft³

6)



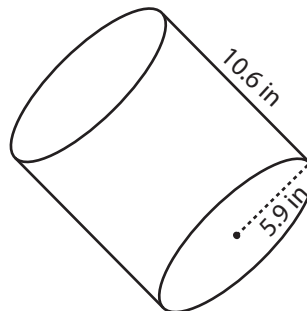
Volume = 699.1 m³

7)



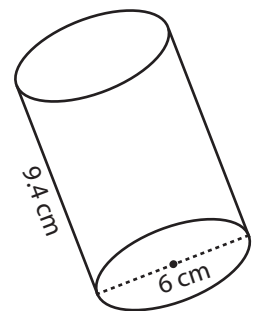
Volume = 186.5 ft³

8)



Volume = 1158.6 in³

9)



Volume = 265.6 cm³

10) A cylindrical wafer biscuit is filled with chocolate. If the inner radius is 4.5 millimeter and the wafer is 10.3 millimeter long, what will be the volume of the chocolate?

Volume = 654.9 mm³