## Math Virtual Learning

 Grade 7
## Volume of Cylinders

May 21, 2020

## Grade 7/Volume of Cylinders Lesson: May 21, 2020

Objective/Learning Target: Find Volume of Cylinders

Let's Get Started:
Watch Video: Volume of Cylinders

## Practice:

Find the volume of the cylinder.


## Practice: <br> Go to this website: Volume of Cylinders

1. The first slide is instructions. Read and click "OK".
2. Starting on slide 2, look at the cylinder carefully.
3. Solve the problem.
4. Type in your answer and click "OK".


## Practice:

Answer the questions on a piece of paper.
Find the volume of the cylinder.


A cylindrical flower vase is 11 inches tall. Find the volume of the vase, if the radius is 4 inches.


## Answer Key:

Once you have completed the problems, check your answers here.


Volume $=\pi r^{2} h$
Volume $=(3.14) 24^{2}$ (30)
Volume $=(3.14) 576(30)$
Volume $=54,259.2 \mathrm{ft}^{3}$


Volume $=\pi r^{2} h$
Volume $=(3.14) 19^{2}(21)$
Volume $=(3.14) 361(21)$
Volume $=23,804.34 y d^{3}$

## Answer Key:

Once you have completed the problems, check your answers here.

A cylindrical flower vase is 11 inches tall. Find the volume of the vase, if the radius is 4 inches.


```
Volume \(=\pi r^{2} h\)
Volume \(=(3.14) 4^{2}(11)\)
Volume \(=(3.14) 16(11)\)
Volume \(=552.64 \mathrm{in}^{3}\)
```

Volume $=\pi r^{2} h$
Volume $=(3.14) 16.3^{2}(10)$
Volume $=(3.14) 265.69(10)$
Volume $=8342.67 \mathrm{ft}^{3}$

## Additional Practice:

Click on the links below to get additional practice and to check your understanding!


## Khan Academy - Practice

## Quizizz - Practice

Open Middle - Challenge
Math Games - Prisms and Cylinders


IXL - Prisms and Cylinders

## Additional Practice: Challenge

Find the missing measurement for the cylinders.

Volume $=6838.92 \mathrm{ft}^{3}$


Volume $=197.82$ in $^{3}$


## Additional Practice: Challenge Answers

Once you have completed the problems, check your answers here.

Volume $=6838.92 \mathrm{ft}^{3}$


```
Volume = \pir 2}
6838.92=(3.14)112(h)
6838.92=(3.14)121(h)
6838.92 = 379.94(h)
6838.92\div379.94=379.94(h)\div379.94
18=h
```

Volume $=197.82 \mathrm{in}^{3}$


```
Volume = \pir 2}
197.82=(3.14) r r (7)
197.82=21.98( }\mp@subsup{r}{}{2}
197.82\div21.98=21.98(r r})\div21.9
9=r2
    \sqrt{}{9}=\sqrt{}{\mp@subsup{r}{}{2}}
3=r
```

