

## **Math Virtual Learning**



April 16, 2020



#### Geometry Lesson: April 16, 2020

#### Objective/Learning Target: Use Similarity to Solve Problems in Context



### Bell Ringer:

# The following shapes are similar. Find the scale factor from the smaller shape to the bigger shape.





#### **Bell Ringer Answer:** 4:5

#### Let's Get Started: Watch Video: <u>Similarity Problems in Context</u>

After you complete video, move on to the practice problems provided.



**Practice:** Solve the following two problems.

1) If a tree casts a 24-foot shadow at the same time that a yardstick casts a 2-foot shadow, find the height of the tree.



2) Ramon places a mirror on the ground 45 ft from the base of a geyser. He walks backward until he can see the top of the geyser in the middle of the mirror. At that point, Ramon's eyes are 6 ft above the ground and he is 7.5 ft from the mirror. Use similar triangles to find the height of the geyser.





#### Answer Key: Here you will find the answers to the previous four questions. Check your answers below.

1) 36 ft

2) 36 ft



#### **Additional Resources:**

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

#### Similar Figures Word Problems Practice