

Name_____Hour_____

Essential Question

Chapter 8

How can we find the volume of three-dimensional figures related to circles?

- Volume of a cylinder:
- Volume of a cone:
- Volume of a sphere:
- Volume of a hemisphere:

Give three or more examples of each of these shapes that exist in everyday life.

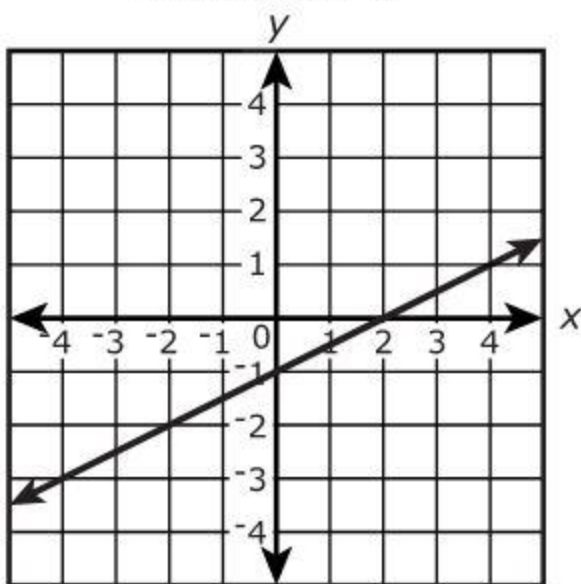
- Cylinder:
- Cone:
- Sphere:
- Hemisphere:

When might you need to find the volume of each of these figures in a real world situation?

- Cylinder:
- Cone:
- Sphere:
- Hemisphere:

Functions W and Z are both linear functions of x .

Function W



Function Z

x	y
-2	-2.5
0	-2
2	-1.5
4	-1

Which statement comparing the functions is true?

- ☐ A. The slope of Function W is less than the slope of Function Z.
- ☐ B. The slope of Function W is greater than the slope of Function Z.
- ☐ C. The y-intercept of Function W is equal to the y-intercept of Function Z.
- ☐ D. The y-intercept of Function W is less than the y-intercept of Function Z.
- ☐ E. The y-value when $x = -4$ for Function W is greater than the y-value when $x = -4$ for Function Z.
- ☐ F. The y-value when $x = -4$ for Function W is equal to the y-value when $x = -4$ for Function Z.