Name _____

Effects On Volume

Find the volume of the following cylinders:

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

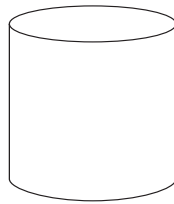## Set 1

Control	Change height	Change radius

r = 4 cm.
h = 5 cm.

V = _____

r = 4 cm.
h = 6 cm.

V = _____
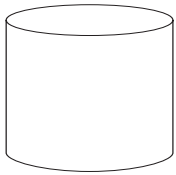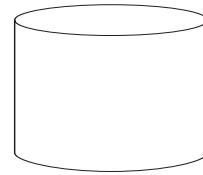
r = 5 cm
h = 5 cm.

V = _____

Set 2

Control	Change height	Change radius

r = 6 cm.
h = 3 cm.

V = _____

r = 6 cm.
h = 4 cm.

V = _____
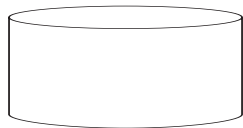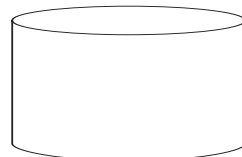
r = 7 cm.
h = 3 cm.

V = _____

Question

Which produced a greater effect on the volume of a cylinder—changing the radius or changing the height? Explain your answer. _____

_____