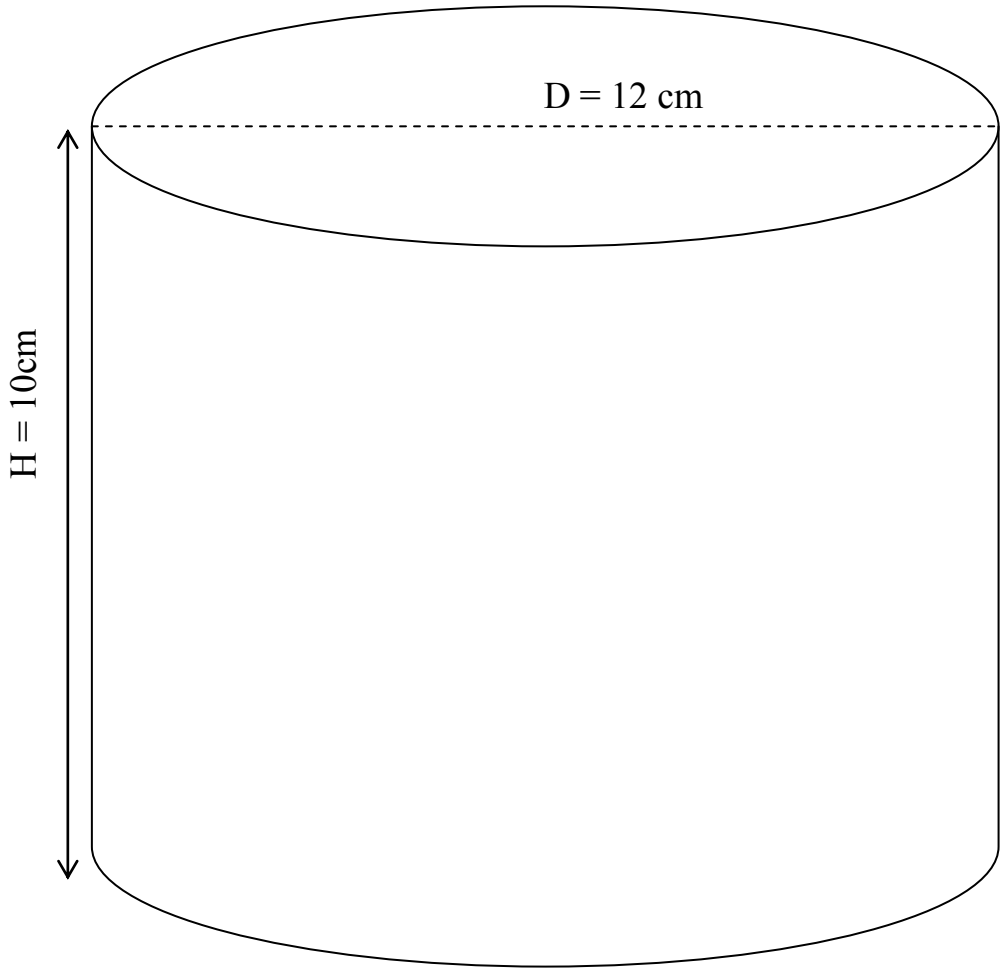
Name and dimensions of 3-D figures	Diagram of 3-dimensional figure	Volume	Change in dimensions	New volume	Percent of change in volume
Cylinder d = 12 cm h = 10 cm	Draw the 3-D figure on the graph paper		d = 14 cm		
Rectangular prism l = 10 cm w = 6 cm h = 14 cm	Draw the 3-D figure on the graph paper		h = 28 cm		
Triangular prism Triangular base: b = 9 cm h = 12 cm Sides of prism: h = 20 cm	Draw the 3-D figure on the graph paper		b = 11 cm h = 14 cm		

Answer key

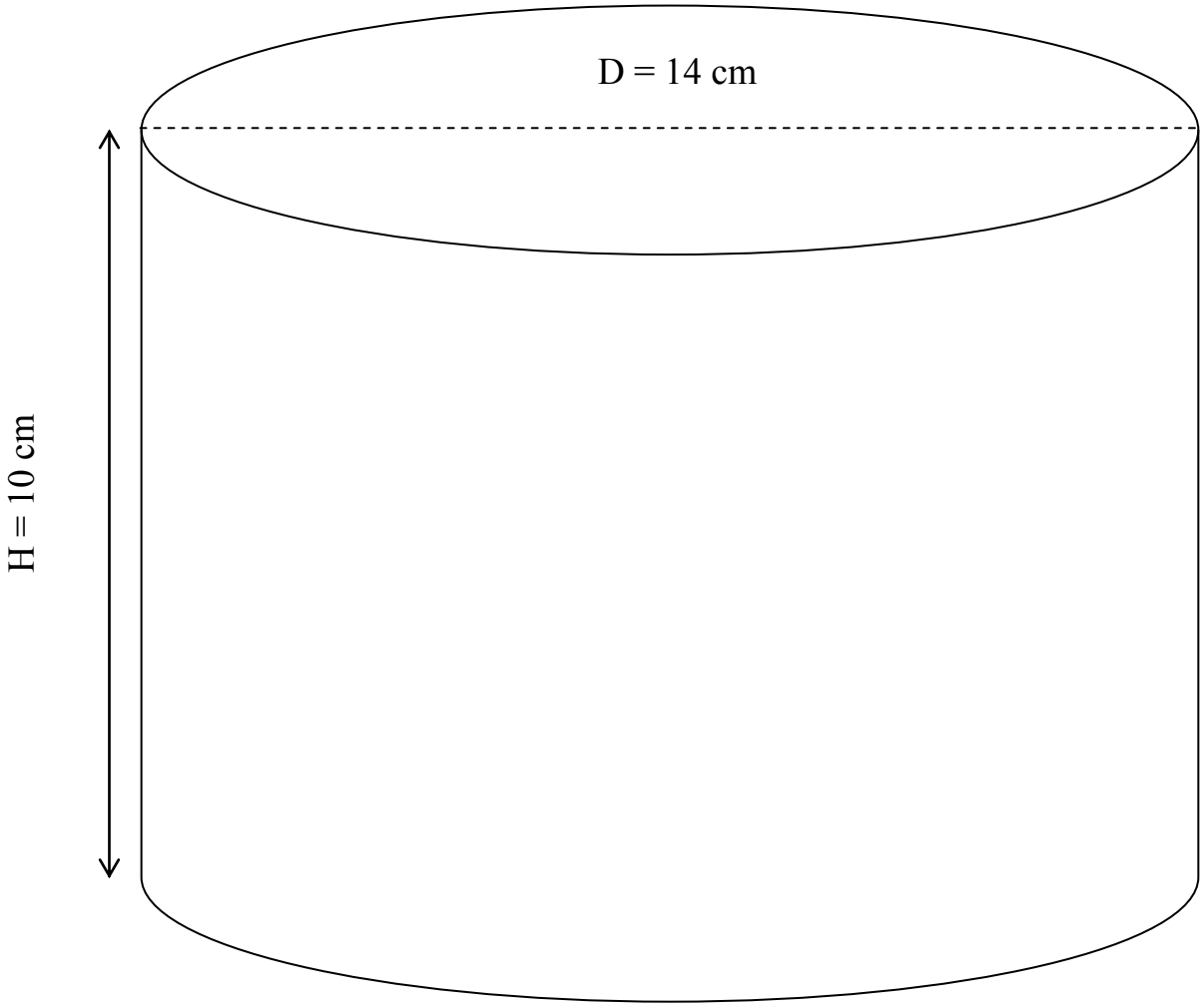
Name and dimensions of 3-D figures	Diagram of 3-dimensional figure	Volume	Change in dimensions	New Volume	Percent of change in volume
Cylinder d = 12 cm h = 10 cm	Draw the 3-D figure on the graph paper	V = Bh 360π cm^3	d = 14 cm	490π cm^3	36% increase
Rectangular prism l = 10 cm w = 6 cm h = 14 cm	Draw the 3-D figure on the graph paper	V = Bh 840 cm^3	h = 28 cm	1680 cm^3	100% increase
Triangular prism Triangular base: b = 9 cm h = 12 cm Sides of prism: h = 20 cm	Draw the 3-D figure on the graph paper	V = Bh 1080 cm^3	b = 11 cm h = 14 cm	1540 cm^3	42.6% increase

Original cylinder



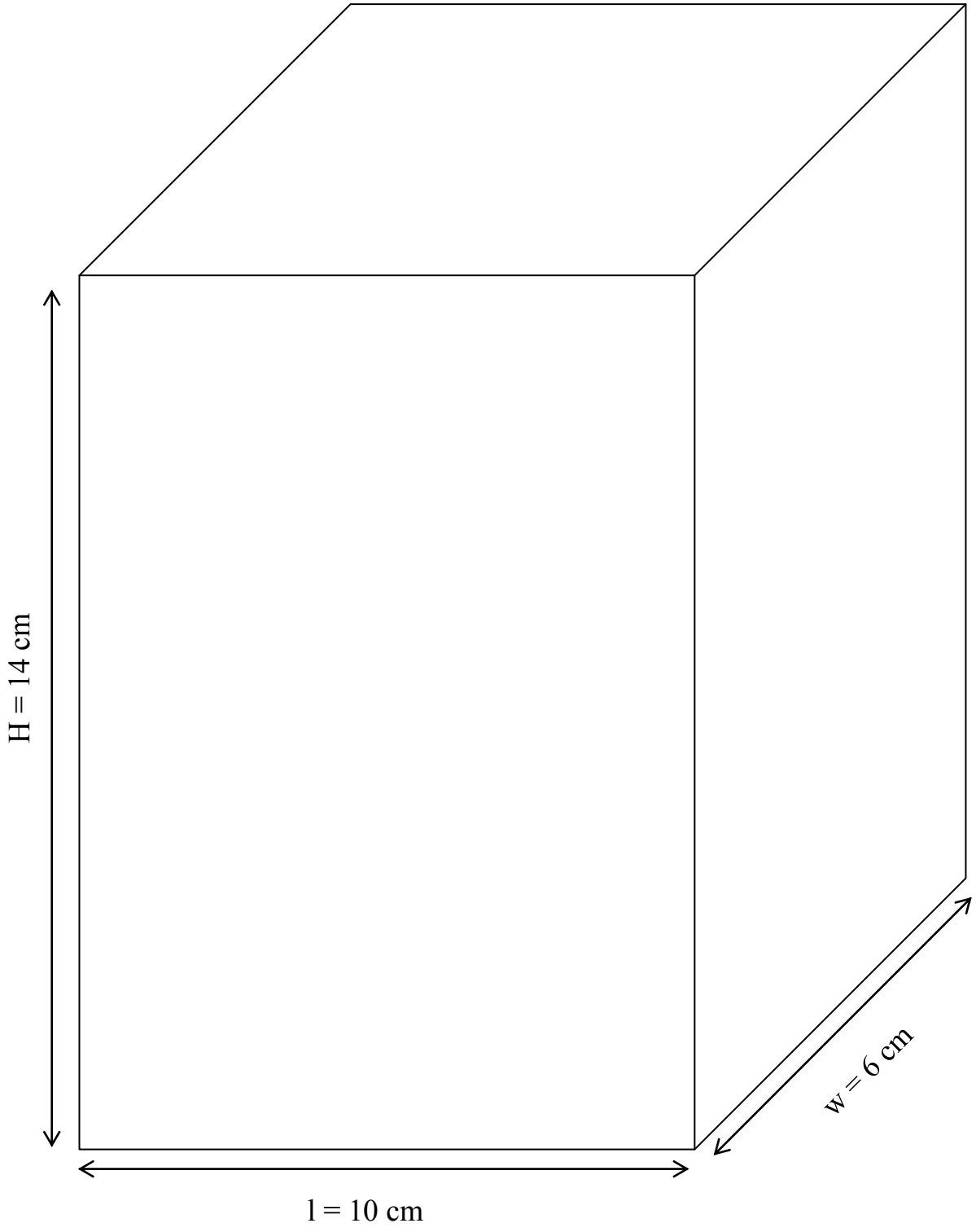
Diagrams are not to scale

Dilated cylinder



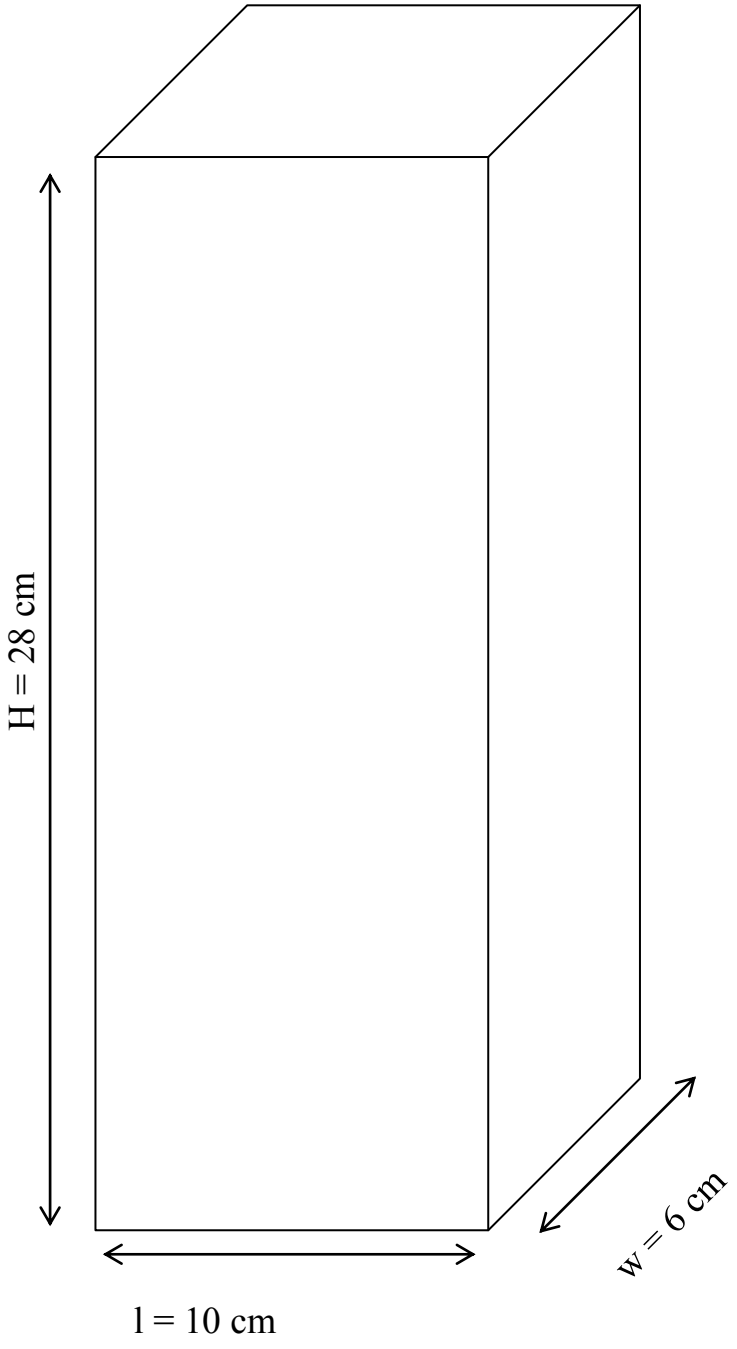
Diagrams are not to scale

Original rectangular prism



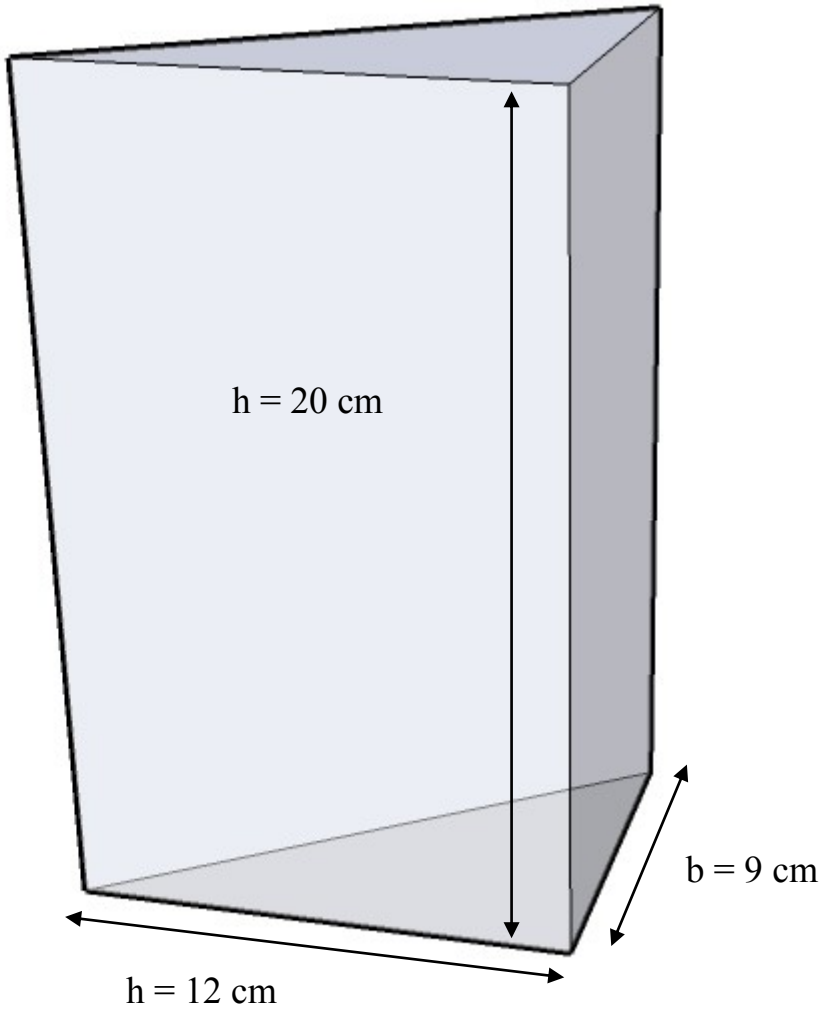
Diagrams are not to scale

Dilated rectangular prism



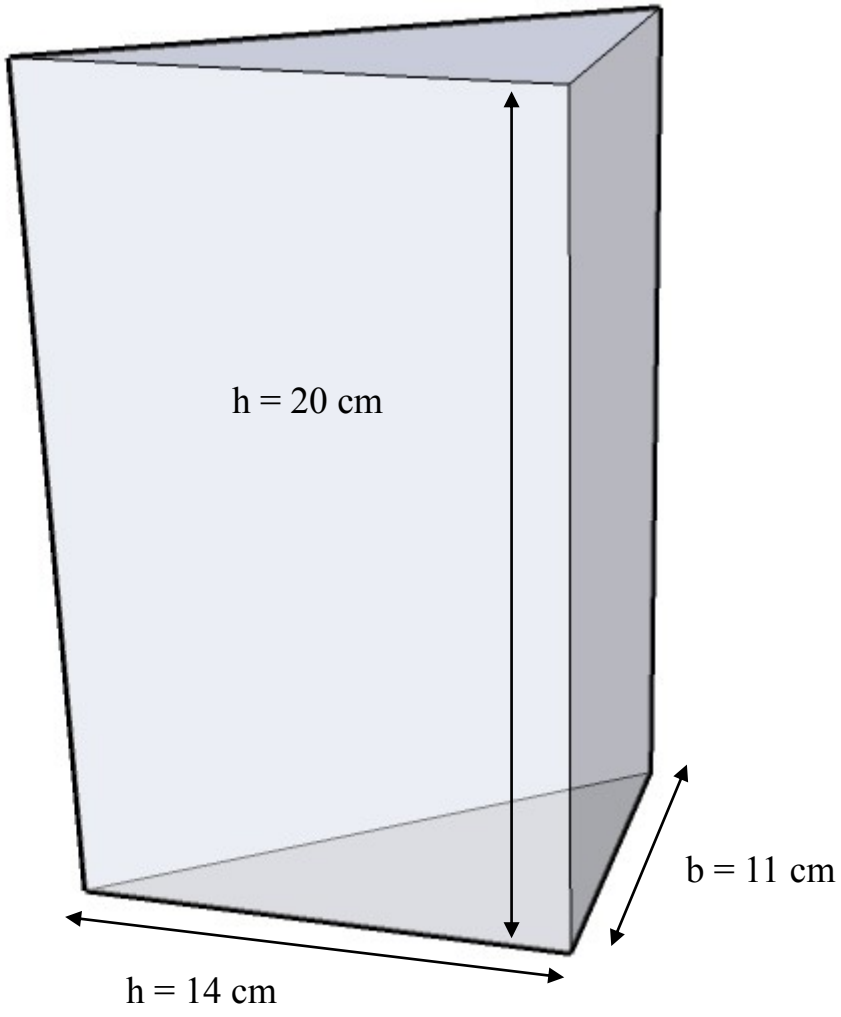
Diagrams are not to scale

Original triangular prism



Diagrams are not to scale

Dilated triangular prism



Diagrams are not to scale