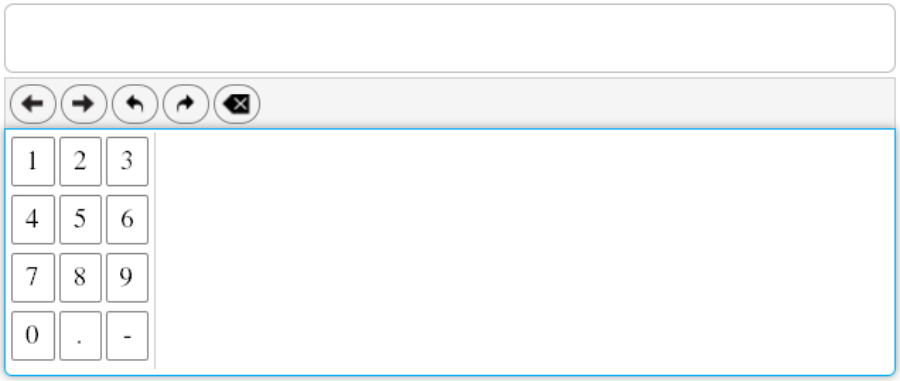
Content Standard	***MAFS.8.G*** *Geometry* ***MAFS.8.G.3*** *Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.* ***MAFS.8.G.3.9*** Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.
Assessment Limits	Graphics of three-dimensional figures can be included. Dimensions must be given as rational numbers. Figures must not be composite.
Calculator	Yes
Item Types	Equation Editor Multiple Choice Multiselect
Context	Allowable

Sample Item	Item Type
A cylinder with a height of $6\frac{1}{2}$ inches and a diameter of 5 inches is shown. What is the volume of the cylinder, in cubic inches? (Use 3.14 for π.)	Equation Editor
The diameter of a sphere is 4 inches. What is the volume of the sphere, in cubic inches? (Use 3.14 for π.)	Equation Editor
A cone has a height of 6.4 inches and a diameter of 6 inches. What is the volume, in cubic inches, of the cone? Use 3.14 for π . 	Equation Editor