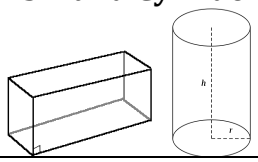
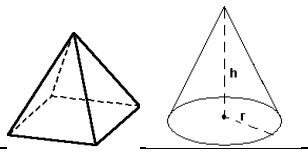
Formulas for Quest (12.1-12.5) on Surface Area and Volume

Shape	Surface Area (SA)	Volume (V)
Prism and Cylinder 	2B+Ph	Bh
Pyramid and Cone 	$B+\frac{1}{2}P\ell$ (or $B+\pi r\ell$ for cones)	$\frac{1}{3}Bh$

What letters stand for

- B = Area of Base
- P = Perimeter of Base [or Circumference ($2\pi r / \pi d$) in circles; used in cylinders and cones]
- h = height (distance between bases)
- ℓ = slant height
- b = base
- r = radius
- C = circumference

Formulas for Quest (12.1-12.5) on Surface Area and Volume – Practice Charts

Shape	**Surface Area (SA)**	**Volume (V)**

Shape	**Surface Area (SA)**	**Volume (V)**

Shape	**Surface Area (SA)**	**Volume (V)**

Shape	**Surface Area (SA)**	**Volume (V)**

Shape	**Surface Area (SA)**	**Volume (V)**