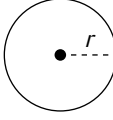
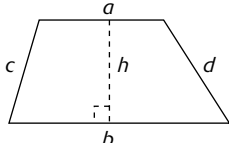
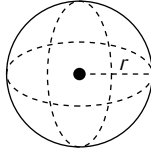
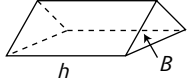
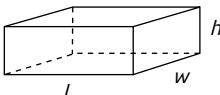
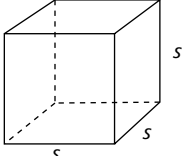
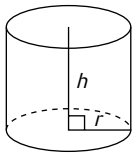
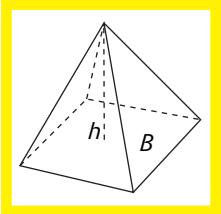
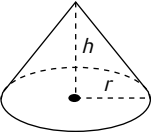
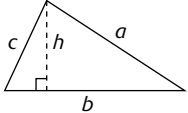
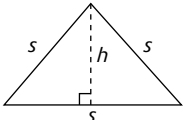
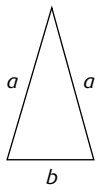
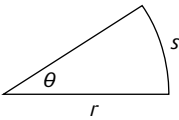


(continued)

<p><b>Circle:</b> radius <math>r</math>, diameter <math>d</math>                      area = <math>\pi r^2</math>                      circumference = <math>2\pi r = \pi d</math>                      diameter <math>d = 2r</math></p> 	<p><b>Trapezoid:</b> height <math>h</math>,                      bases <math>a, b</math>                      area = <math>\frac{1}{2}h(a + b)</math>                      perimeter = <math>a + b + c + d</math></p> 	<p><b>Sphere:</b> radius <math>r</math>                      volume = <math>\frac{4}{3}\pi r^3</math>                      lateral surface area = <math>4\pi r^2</math></p> 	<p><b>Right prism:</b> height <math>h</math>,                      area of base <math>B</math>                      volume = <math>Bh</math>                      total surface area = <math>2B + \text{sum of area of sides}</math></p> 
<p><b>Rectangular prism:</b> length <math>l</math>,                      width <math>w</math>, height <math>h</math>                      volume = <math>lwh</math>                      total surface area = <math>2hl + 2hw + 2lw</math></p>  <p><b>Cube:</b> side <math>s</math>                      volume = <math>s^3</math>                      total surface area = <math>6s^2</math></p> 	<p><b>Right circular cylinder:</b>                      height <math>h</math>, radius of base <math>r</math>                      volume = <math>\pi r^2 h</math>                      lateral surface area = <math>2\pi r h</math>                      total surface area = <math>2\pi r h + 2\pi r^2</math></p> 	<p><b>Pyramid:</b> height <math>h</math>,                      area of base <math>B</math>                      volume = <math>\frac{1}{3}Bh</math></p> 	<p><b>Right circular cone:</b>                      height <math>h</math>, radius of base <math>r</math>                      volume = <math>\frac{1}{3}\pi r^2 h</math>                      lateral surface area = <math>\pi r \sqrt{r^2 + h^2} = \pi r s</math>, where <math>s</math> is the slant height = <math>\sqrt{r^2 + h^2}</math>                      total surface area = <math>\pi r \sqrt{r^2 + h^2} + \pi r^2 = \pi r s + \pi r^2</math></p> 

Here are additional formulas that you might need to know for the Mathematics CK.

<p><b>Triangle:</b> sides <math>a, b</math>, and <math>c</math>                      area = <math>\sqrt{s(s-a)(s-b)(s-c)}</math>                      where <math>s</math> (the semiperimeter)                      = <math>\frac{a+b+c}{2}</math>                      perimeter = <math>a + b + c</math></p> 	<p><b>Equilateral triangle:</b> side <math>s</math>                      area = <math>\frac{\sqrt{3}}{4}s^2</math>                      Perimeter = <math>3s</math></p> 	<p><b>Isosceles triangle:</b>                      sides <math>a, a</math>, and <math>b</math>                      area = <math>\frac{1}{2}b\sqrt{a^2 - \frac{b^2}{4}}</math>                      Perimeter = <math>2a + b</math></p> 	<p><b>Sector of circle:</b> radius <math>r</math>, <math>\theta</math>                      measure of subtended central angle in radians                      area = <math>\frac{\theta r^2}{2}</math>                      arc length = <math>s = r\theta</math></p> 
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