

Below are the formulas you may find useful as you work the problems. However, some of the formulas may not be used. You may refer to this page as you take the test.

Area	Mean Absolute Deviation
Rectangle and Parallelogram $A = bh$	$\frac{\sum_{i=1}^n x_i - \bar{x} }{n}$
Triangle $A = \frac{1}{2}bh$	the average of the absolute deviations from the mean for a set of data
Circle $A = \pi r^2$	
Trapezoid $A = \frac{1}{2}(h)(b_1 + b_2)$	
Circumference	Distance Formula
$C = \pi d$ $\pi \approx 3.14$	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Volume	Slope Formula
Rectangular Prism/Cylinder $V = Bh$	$m = \frac{y_2 - y_1}{x_2 - x_1}$
Pyramid/Cone $V = \frac{1}{3}Bh$	
Sphere $V = \frac{4}{3}\pi r^3$	Midpoint Formula
Surface Area	$M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$
Rectangular Prism $SA = 2lw + 2wh + 2lh$	
Cylinder $SA = 2\pi r^2 + 2\pi rh$	Interquartile Range
Pythagorean Theorem	the difference between the first quartile and third quartile of a set of data
$a^2 + b^2 = c^2$	