

TB2 #1



Below are 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.

**Circumference**

$$C = \pi d \text{ or } C = 2\pi r \quad \pi \approx 3.14$$

**Area**

Rectangle  $A = bh$  or  $A = lw$

Triangle  $A = \frac{1}{2}bh$

Circle  $A = \pi r^2$

**Pythagorean Theorem**

$$a^2 + b^2 = c^2$$

**Mean**

$$\bar{x} = \frac{x_1 + x_2 + x_3 + \dots + x_n}{n}$$

**Mean Absolute Deviation**

$$\frac{\text{Total Distance (of all values from the mean value)}}{\text{Number of values}}$$

**Interquartile Range:** the difference between the first quartile and third quartile of a set of data

**Volume**

Right Prism  $V = (\text{area of base}) \times (\text{height})$

Cylinder  $V = \pi r^2 h$

Sphere  $V = \frac{4}{3}\pi r^3$

Cone  $V = \frac{1}{3}\pi r^2 h$