

The formulas below are provided to students during testing in both the online testing platform and the printed test booklet. This page may be printed for instructional use during the school year, but it MAY NOT be used as scratch paper during test administration.

Perimeter

The perimeter of a polygon is equal to the sum of the lengths of its sides.

Circumference of a Circle

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

$$\pi \approx 3.14$$

Area

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

Rectangle $A = bh$

Circle $A = \pi r^2$

Surface Area

The total area of the 2-dimensional surfaces that make up a 3-dimensional object.

Volume of Right Prism or Cylinder

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

Mean

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

The mean is the sum of all the data values divided by the total number of data values.

Interquartile Range

$$IQR = Q_3 - Q_1$$

The difference between the first quartile and third quartile of a set of data.