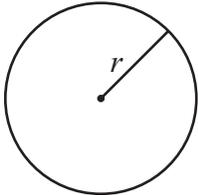


New England Common Assessment Program

Mathematics Reference Sheet – Grade 8

Use the information below as needed to answer questions on the mathematics test.

Circle

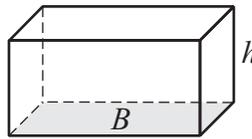


$$\text{Area} = \pi r^2$$

$$\text{Circumference} = 2\pi r$$

$$\pi \approx 3.14$$

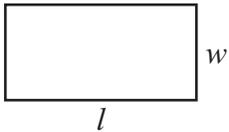
Rectangular Prism



$$\text{Volume} = \text{area of the base} \cdot \text{height}$$

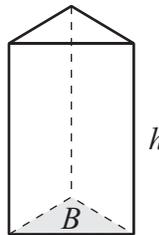
$$= Bh$$

Rectangle



$$\text{Area} = lw$$

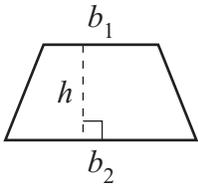
Triangular Prism



$$\text{Volume} = \text{area of the base} \cdot \text{height}$$

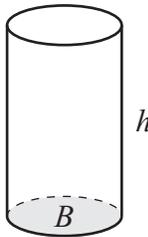
$$= Bh$$

Trapezoid



$$\text{Area} = \frac{1}{2} h(b_1 + b_2)$$

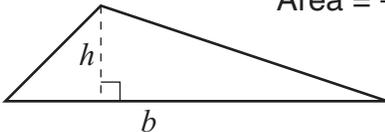
Cylinder



$$\text{Volume} = \text{area of the base} \cdot \text{height}$$

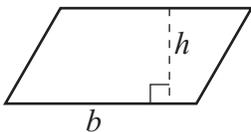
$$= Bh$$

Triangle



$$\text{Area} = \frac{1}{2} bh$$

Parallelogram



$$\text{Area} = bh$$

Sum of Angle Measures in a Polygon

For an n -sided polygon, the sum of the interior angle measures is $180(n - 2)$.

Mean: The mean of a data set is the sum of all the values divided by the number of values.

Median: The median of a data set is the middle value or average of the two middle values when the values are arranged in numerical order.

Mode: The mode of a data set is the value that occurs most often.