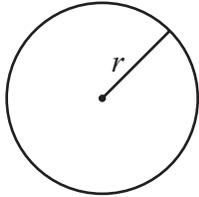


New England Common Assessment Program Mathematics Reference Sheet – Grade 8

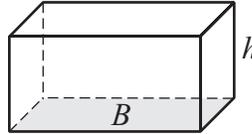
Use the information below as needed to answer questions on the mathematics test.

Circle



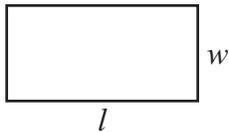
$$\text{Area} = \pi r^2$$
$$\text{Circumference} = 2\pi r$$
$$\pi \approx 3.14$$

Rectangular Prism



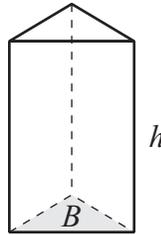
$$\text{Volume} = \text{area of the base} \cdot \text{height}$$
$$= Bh$$

Rectangle



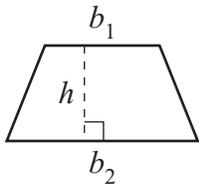
$$\text{Area} = lw$$

Triangular Prism



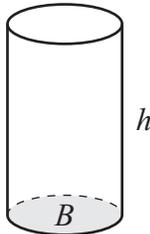
$$\text{Volume} = \text{area of the base} \cdot \text{height}$$
$$= Bh$$

Trapezoid



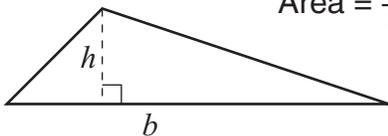
$$\text{Area} = \frac{1}{2} h(b_1 + b_2)$$

Cylinder



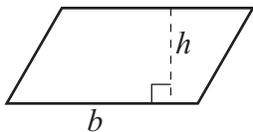
$$\text{Volume} = \text{area of the base} \cdot \text{height}$$
$$= Bh$$

Triangle



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

Parallelogram



$$\text{Area} = bh$$

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.