Grade 7 Mathematics Formula Sheet

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.

Circumference of a Circle

$C = \pi d$ or $C = 2\pi r$

$\pi \approx 3.14$

Area

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

Parallelogram: $A = bh$

Circle: $A = \pi r^2$

Surface Area

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

Volume of Right Prism or Cylinder

$V = (area\ of\ base)(height)$ or $V = Bh$

Mean

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

Mean Absolute Deviation

Mean absolute deviation is the sum of the distances between each data value and the mean, divided by the number of data values.

Interquartile Range (IQR)

$\text{IQR} = Q_3 - Q_1$

Interquartile range is the distance between the third quartile and the first quartile of a set of data.

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