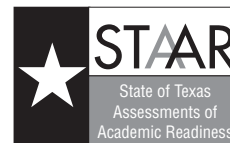


STAAR GEOMETRY REFERENCE MATERIALS



CIRCUMFERENCE

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

AREA

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

Rectangle or parallelogram $A = bh$

Rhombus $A = \frac{1}{2}d_1d_2$

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

Regular polygon $= \frac{1}{2}aP$

Circle $= \pi r^2$

SURFACE AREA

Prism $= Ph + 2B$

Pyramid $= \frac{1}{2}Pl + B$

Cylinder $= 2\pi rh + 2\pi r^2$

Cone $= \pi rl + \pi r^2$

Sphere $= 4\pi r^2$

VOLUME

Prism or cylinder $V = Bh$

Pyramid or cone $V = \frac{1}{3}Bh$

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

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To download a free, complete version of the STAAR Geometry Reference Materials, visit www.tea.state.tx.us/student.assessment/staar/.

Provide students with a durable reference chart for year-round use, so that they can fully understand what material is provided on the charts and how to use it to solve problems.

Teacher's Tip

Give your students a little extra motivation to hang on to their reference charts during the school year. Tell your students, "If you have your reference chart on class test days, then you may use it during my tests. If you do not have your reference chart ... (too bad)."

Total