



Geometry Cheat Sheet

By: The Sunshine Teacher / Miss King's Classroom



2-D Perimeter & Area

Rectangle

P = Perimeter
 l = length
 w = width
 A = Area

$P = 2l + 2w$
 $A = l \cdot w$

Parallelogram

b = base
 h = height

$A = b \cdot h$

Trapezoid

b_1 = base 1
 b_2 = base 2
 h = height

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

Triangle

b = base
 h = height

$A = \frac{1}{2} \cdot h \cdot b$

Circle

d = diameter
 r = radius

$C = 2 \cdot r \cdot \pi$ or $\pi \cdot d$
 (Circumference)
 $A = \pi \cdot r^2$

3-D Surface Area & Volume

Rectangular Prism

SA = area of each side added up
 $V = l \cdot w \cdot h$

Square Pyramid

$SA = 2l + 4(\frac{1}{2} \cdot l \cdot s)$
 $V = \frac{1}{3} \cdot 2l \cdot h$

Cone

$\pi = 3.14$

$SA = \pi \cdot r \cdot l$
 $V = \frac{1}{3} \cdot \pi r^2 \cdot h$

Cylinder

$SA = 2\pi r h + 2\pi r^2$
 $V = \pi r^2 \cdot h$

Sphere

$SA = 4\pi r^2$
 $V = \frac{4}{3} \pi r^3$

Lines, Segments & Rays

Point

- has no size or shape
- has a position
- labeled by a single letter or two numbers on a graph ($\frac{x}{y}$)
- M = point M

Line

- is a straight path of points
- has no beginning nor end = infinite

Line XY

Segment

- portion of a line with two end points

Segment AB

Ray

- a portion of a line with a single endpoint
- extends in a single direction forever

Ray RS
 (name with endpoint first)

Angles

Acute $< 90^\circ$

Right 90°

Obtuse $> 90^\circ$

Strait 180°

$\angle x + \angle y + \angle z = 180^\circ$

$\angle a + \angle b + \angle c + \angle d = 360^\circ$

Complementary Angles
 Add up to 90°
 $\angle a + \angle b = 90^\circ$

Supplementary Angles
 Add up to 180°
 $\angle x + \angle y = 180^\circ$

Vertical Angles

- pairs of opposite angles made by intersecting lines

$\angle 1 = \angle 3$
 $\angle 2 = \angle 4$

Shapes

Triangles - by Sides

Equilateral
 all sides the same
 all angles the same

Isosceles
 2 equal sides
 2 equal angles

Scalene
 no equal sides or angles

Triangles - by angle

Acute
 All angles are acute ($< 90^\circ$)

Right
 Has 1 right (90°) angle

Obtuse
 Has 1 obtuse ($> 90^\circ$) angle

Quadrilaterals

Square, rectangle, parallelogram, trapezoid, rhombus, kite

Interior Degrees

Sum of interior angles = $180 \cdot (n - 2)$
 n = # of sides

Triangle = 180°
 Quadrilateral = 360°
 Pentagon = 540°
 Hexagon = 720°

Algebra And Geometry Cheat Sheet Year 8

Julia Schneider



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