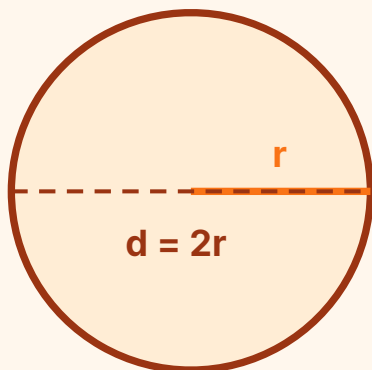


Circles, Angles & Volume

7th Grade

Circumference, area of a circle, angle-pair rules and prism volume.

CIRCLES — do not mix these two up



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

circumference — the distance around

$$A = \pi r^2$$

area — the space inside. Square the radius, never the diameter.

$$\pi \approx 3.14 \approx 22/7$$

ANGLE PAIRS

Complementary

add to 90°

two angles making a right angle

Supplementary

add to 180°

two angles on a straight line

Vertical

equal

opposite angles where two lines cross

Adjacent

share a side

next to each other, no overlap

Corresponding

equal

same position at each parallel line

Alternate interior

equal

the Z shape between parallel lines

TRIANGLES & PRISMS

Angles in a triangle add to 180° .

In a quadrilateral, 360° .

Prism volume = area of the base $\times$ the length. Cylinder: $V = \pi r^2 h$.