

Formula Sheet

Area and Perimeter Formulas

Perimeter = distance around the outside (add all sides).

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

$$\text{Area parallelogram} = bh$$

$$\text{Area rectangle} = bh \text{ or } tw$$

$$\text{Area square} = bh \text{ or } s^2$$

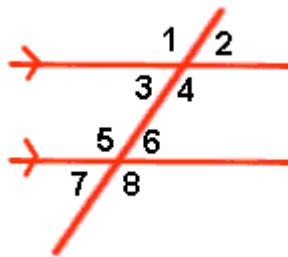
$$\text{Area trapezoid} = \frac{1}{2}h(b_1 + b_2)$$

$$\text{Area circle} = \pi r^2$$

$$\text{Circumference of circle} = 2\pi r = \pi d$$

$$\text{Volume}_{\text{right solid}} = A_{\text{base}} * \text{Height of solid}$$

Parallel Lines



Corresponding angles are equal.

$$\angle 1 = \angle 5, \angle 2 = \angle 6, \angle 3 = \angle 7, \angle 4 = \angle 8$$

Alternate Interior angles are equal.

$$\angle 3 = \angle 6, \angle 4 = \angle 5$$

Alternate Exterior angles are equal.

$$\angle 1 = \angle 8, \angle 2 = \angle 7$$

Same side interior angles are supplementary.

$$m\angle 3 + m\angle 5 = 180, \quad m\angle 4 + m\angle 6 = 180$$

Angle Information

Complementary angles - two angles whose sum is 90.

Supplementary angles - two angles whose sum is 180.

Charts for word problems

- Charts can assist in organizing the data

#	value	=	total value
_____	_____	_____	_____

rate	time	distance
_____	_____	_____

Rate	time	work
_____	_____	_____

hour	wage	salary
_____	_____	_____

Princ.	%	time	interest
_____	_____	_____	_____

%	amt.	solution
_____	_____	_____