

STAAR GRADE 8 MATHEMATICS REFERENCE MATERIALS



LINEAR EQUATIONS

Slope-intercept form

$$y = mx + b$$

Direct variation

$$y = kx$$

Slope of a line

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

CIRCUMFERENCE

Circle

$$C = 2\pi r$$

or

$$C = \pi d$$

AREA

Triangle

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

Rectangle or parallelogram

$$A = bh$$

Trapezoid

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

Circle

$$A = \pi r^2$$

SURFACE AREA

	Lateral	Total
Prism	$S = Ph$	$S = Ph + 2B$
Cylinder	$S = 2\pi rh$	$S = 2\pi rh + 2\pi r^2$

VOLUME

Prism or cylinder

$$V = Bh$$

Pyramid or cone

$$V = \frac{1}{3}Bh$$

Sphere

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

ADDITIONAL INFORMATION

Pythagorean theorem

$$a^2 + b^2 = c^2$$

Simple interest

$$I = Prt$$

Compound interest

$$A = P(1 + r)^t$$

8th Grade Staar Math Practice Problems

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