

2023 STAAR 8th Grade Math Review!

8TH GRADE STAAR REVIEW (READINESS STANDARDS)

GRAPHING LINEAR EQUATIONS

Steps to Graphing a Line

1. Write the equation in slope-intercept form: $y = mx + b$
2. Identify the slope (m) and y-intercept (b)
3. Plot the y-intercept on the y-axis
4. Use the slope to find another point
5. Draw a straight line through the points

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SOLVING EQUATIONS

Example 1: $3x + 5 = 2x + 10$

Subtract the $2x$ from both sides of the equation.

$$3x + 5 - 2x = 2x + 10 - 2x$$

$$x + 5 = 10$$

Subtract 5 from both sides of the equation.

$$x + 5 - 5 = 10 - 5$$

$$x = 5$$

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PYTHAGOREAN THEOREM

Example 1: Right triangle with legs 3 and 4, hypotenuse 5.

$$3^2 + 4^2 = 5^2$$

$$9 + 16 = 25$$

$$25 = 25$$

Example 2: Right triangle with legs 5 and 12, hypotenuse 13.

$$5^2 + 12^2 = 13^2$$

$$25 + 144 = 169$$

$$169 = 169$$

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RATE OF CHANGE

Table:

1	2	3
2	4	6

Graph: Line passing through (0, 0) and (2, 4).

Equation: $y = 2x$

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SIMPLE INTEREST

Formula: $I = prt$

Example: $I = 100(0.05)(2) = 10$

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TRANSFORMATIONS

Translation: Slide a figure without rotating or reflecting it.

Reflection: Flip a figure over a line of symmetry.

Rotation: Turn a figure around a fixed point.

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COMPOUND INTEREST

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

Example: $A = 100(1 + 0.05)^2 = 110.25$

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DILATIONS

Example: Dilating a triangle by a scale factor of 2.

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IDENTIFYING FUNCTIONS

Table:

1	2	3
2	4	6

Graph: A line passing through the origin.

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VOLUME

Cylinder: $V = \pi r^2 h$

Cone: $V = \frac{1}{3} \pi r^2 h$

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

Examples, Vocabulary, and Helpful Tips!

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