

# 8th Grade Math Review

NC EOG IMPORTANT TOPICS

## FORMULAS

- Volume of a Cylinder:  $\pi r^2 h$
- Volume of a Cone:  $\frac{1}{3} \pi r^2 h$
- Volume of a Sphere:  $\frac{4}{3} \pi r^3$
- Slope-Intercept Form:  $y = mx + b$
- Slope Formula:  $\frac{y_2 - y_1}{x_2 - x_1}$
- Area of a Square:  $A = s^2$
- Area of a Rectangle:  $A = l \times w$
- Area of a Triangle:  $A = \frac{1}{2}bh$

## APPROXIMATING IRRATIONAL NUMBERS

$$\sqrt{27} = \sqrt{9 \cdot 3} = 3\sqrt{3} \approx 3(1.732) = 5.196$$

### Pythagorean Theorem



Pythagorean Theorem:

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

Pythagorean Triple:

$$\sqrt{c^2 - a^2} = b$$

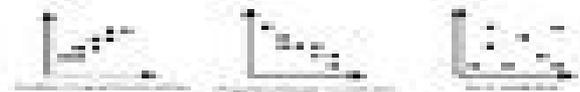
### Pythagorean Triples

<p>Pythagorean Triples</p> $3^2 + 4^2 = 5^2$	<p>Pythagorean Triples</p> $5^2 + 12^2 = 13^2$	<p>Pythagorean Triples</p> $8^2 + 15^2 = 17^2$
<p>Pythagorean Triples</p> $7^2 + 24^2 = 25^2$	<p>Pythagorean Triples</p> $9^2 + 40^2 = 41^2$	<p>Pythagorean Triples</p> $20^2 + 21^2 = 29^2$

## SYSTEM OF EQUATIONS



## SCATTERPLOT RELATIONSHIPS



## WRITING LINEAR EQUATIONS

Find the Slope, Pick a Point, Plug it in.

## INTERIOR & EXTERIOR ANGLES OF TRIANGLES



## INVERSE OPERATIONS



## TRANSFORMATIONS

<p>Translation</p>	<p>Reflection</p>	<p>Rotation</p>	<p>Dilation</p>
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### Graphing Slopes

Types of Slope:

- Positive Slope:  $y = mx + b$
- Negative Slope:  $y = -mx + b$
- Zero Slope:  $y = b$
- Undefined Slope:  $x = a$

# Eog Study Guide Answers

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