Observed
Lesson Plan
highlighted in
pink.

The pages following this demonstrate each section of the lesson.

Math 8	C.C. Standards	Objective: Essential questions addressed	Warm-UP and Vocabulary	Instruction	Assignment	Bloom's Taxonomy triangleversion
Mon 1/2		50.		Winter Break		Week:17
Tues 1/3	8.G.6 8.G.7 8.G.8 8.EE.2	I can find relationships when comparing the lengths of the sides of a right triangle	WWK: Right Triangle Square Diagonal Hypotenuse legs W.U find the area of quadrilaterals , draw diagonals of quads	PT: The Pythagorean Relationship - puzzle that proves the Pythag. theorem using the area of squares model Postponed until after break.	Complete Performance Task	apply
Wed 1/4	8.G.6 8.G.7 8.G.8 8.EE.2	I can find relationships when comparing the lengths of the sides of a right triangle	Root Index Cube root	Pythag Relation PT - Finalize relationship for Pythag with additional ex Practice with Square Roots	Squares and Square Roots	Evaluate and analyze (wu and mastery)
Thur 1/5	8.G.6 8.G.7 8.G.8	I can use the Pythagorean Theorem to find the missing side	Video for WU	Direct Instruction - Pythag Thm Proof, quote, picture, 3 ways to solve	Solve for leg	Make sure p Explore













Content Standards Covered:

Understand and apply the Pythagorean Theorem.

CCSS.MATH.CONTENT.8.G.B.6

Explain a proof of the Pythagorean Theorem and its converse.

CCSS.MATH.CONTENT.8.G.B.7

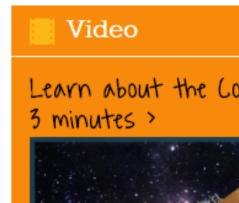
Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.

CCSS.MATH.CONTENT.8.G.B.8

Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.

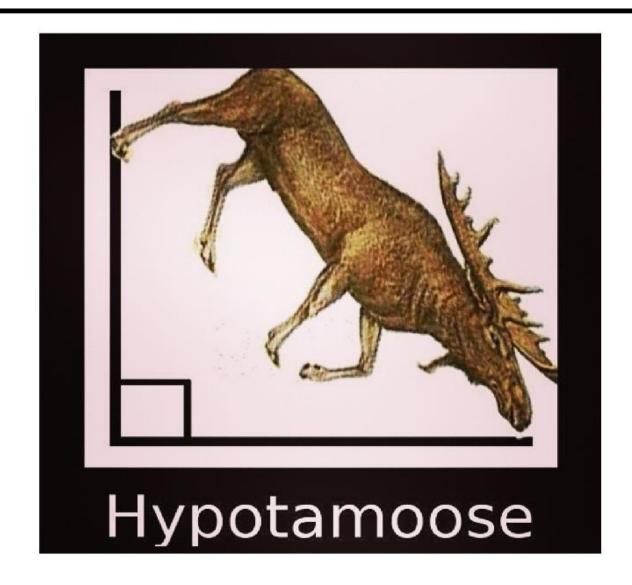
Mathematics App

Mathematics Appendix



What???!!!

Entry:
As students
enter the
class, this is on
the board to
generate
discussion
about previous
day's
vocabulary
lesson:

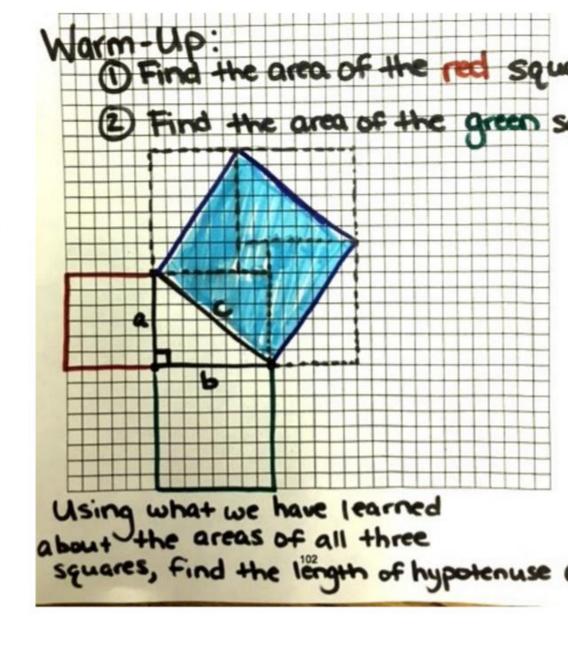




- Learning Target
- 2. Warm-up taking previous lesson's performance task deeper.
- 3. MBP= Mathematical **Best Practice** focus for the day.

I can find relationships when comparing the lengths of the sides of a right triangle. W17D2

M.B.P.: 5

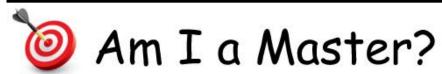


Mathematical Best Practice 5:

Use appropriate tools strategically.

A.K.A. I can use math tools and explain why I use them.

Students given time to work on this individually, or with a partner. Some student work was shared with the class.



Given a right triangle with side lengths of

$$a = 7 \text{ and } b = 3$$

- 1. Make a sketch of this situation.
- 2. What is a conclusion you can make?

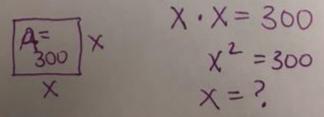
Direct Instruction –

This example set was used to make connections to material learned earlier in the unit. These skills are required for upcoming lessons on using the Pythagorean Theorem to solve a right triangle.

This will be glued into each student's interactive notebook on the day following.

Square Roots Practice

- 1. Find two squares of 100. = 10 because 10.10=100 (-10)(-10) = 100
- 5-3=2
- 3. Simplify \$\frac{9}{27} = 3 be cause 3.3.3=27
- 4. Simplify $\sqrt{\frac{4}{36}}$. = $\frac{\sqrt{4}}{\sqrt{36}}$ = $\frac{2}{6}$ = $\frac{1}{3}$
- 5. Miranda built a square chessboard that has an area of 300 square inches. What is an estimate of the length of one side to the nearest hundredth?



Assignment:

de Length leg a	Side length leg b	AREA of the square from leg a	AREA of the square from leg b	Area of the square on hypotenuse c
nat do you notice	17			
nat do you notice	7			
nat do you notice	7			
		s of the squares in eac	th row of the table?	
hat do you notice		s of the squares in eac	h row of the table?	
		s of the squares in eac	h row of the table?	