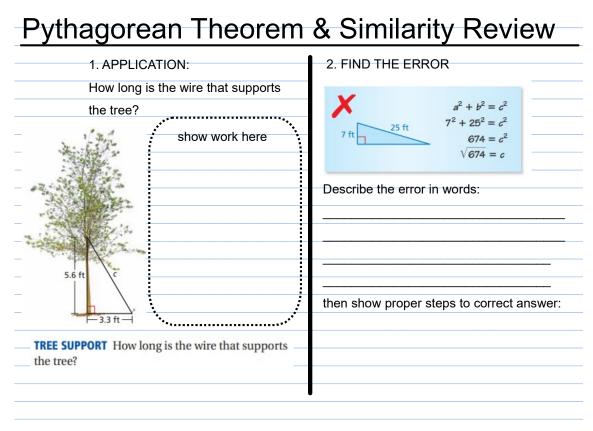
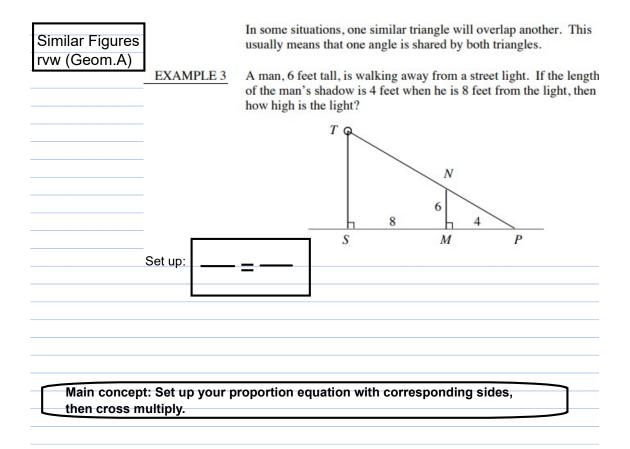
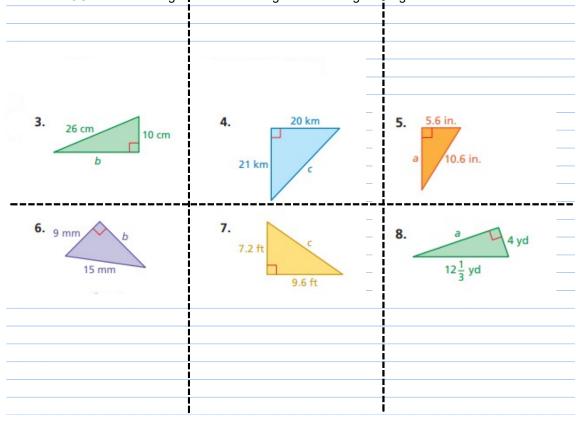


QUESTIONS TO ANSWER, BASED ON YOUR MODEL:
•
1. What are the measurements of each of the 4 sides of your squares:
2 b2 -
c ² =
2. What is the area of each one of the Squares?
$a^2 = b^2 = c^2 =$
3. Does $a^2 + b^2 = c^2$? (How close were you?)

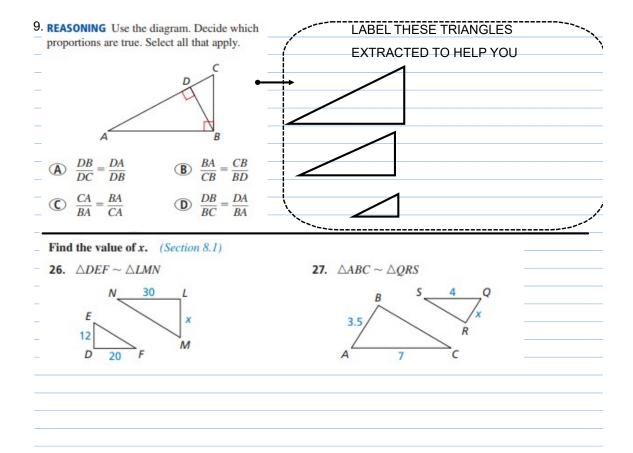
4. **Conjecture.** Write 4 sentences about this experience. Describe each square, its relation to the Right Triangle, mention how Area is involved, and other important details along the way. [Be ready to share]







"ALL YOU." Find the length of the missing side of the right triangles.

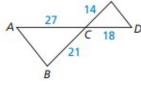


Warm Up

Name _____

1. Write a proportion to show the Triangles are similar, and (2). prove the proportion is True by

cross-multiplication. 3. Finally, write a statement of similarity about the Triangles using "Geometry notation ~ "

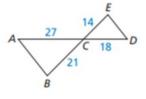


Warm Up

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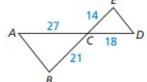
"Geometry notation ~ "



Warm Up

Name

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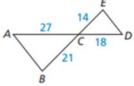


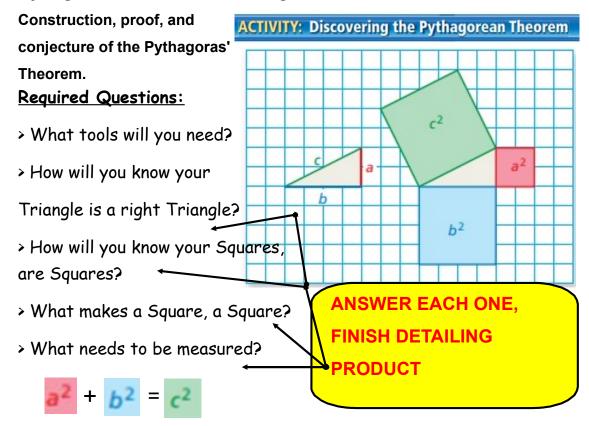
Warm Up

Name ___

1. Write a proportion to show the Triangles are similar, and (2). prove the proportion is True by

cross-multiplication. 3. Finally, write a statement of similarity about the Triangles using "Geometry notation ~ "





Only to be used for arranged hours



Another way to check if a proportion is true, is to use "cross-products" or "cross multiplication." By multiplying the diagonals of the proportion, these cross-products must be equal. Example: $\ln \frac{20}{25} = \frac{4}{5}$, the cross products (products of the diagonals) are,

 $20 \cdot 5$ and $25 \cdot 4$. Do you see where these products come from in the proportion?

And are these cross-products equal? Does $20 \cdot 5 = 25 \cdot 4$?

TASK 3: Use Cross-Products/Cross-Multiplication, to verify if the following proportions are true.

If
$$\frac{a}{b} = \frac{c}{d}$$
, then $a \cdot d = b \cdot c$

Get Ready for Competition Thursday. 2 Teams will be made, you will relay to the board, using problems from "side 2."

GET READY FOR A NUMBER TALK:

THINKING AND SHARING.

36 109	
49 108	
119 48	
126 124	

LESSON	
FOLLOWS	
TRIGONOMETRY INTRO	:D

The Culture of Trigonometry

Trigonometry is a branch of Geometry, it relates Right Triangles to many-many life applications,

math situations, functions. It can use Algebra to solve problems, or show graphs, meaning variables like x, yet it can also use Greek letters as variables to represent Angles.

Lastly, it is all based on the concept of Ratios of the length of Triangles, and their constant

relation to their angles of reference, based on which side is Adjacent, Opposite, and the Hypotenuse.

CLO: To introduce the culture of Trigonometry based on the following vocabulary: Ratio, Angle of Reference, Theta, Adjacent, Opposite, Hypotenuse. Students will understand and experience the relationship of the aforementioned.

RATIO: What is the ratio of "Girls to boys" today in the class?

Ratio of 12th graders in this class to underclassmen?

Ratio of your hand to your arm ?

Your cell phone's width to the desk' is (about) times smaller,

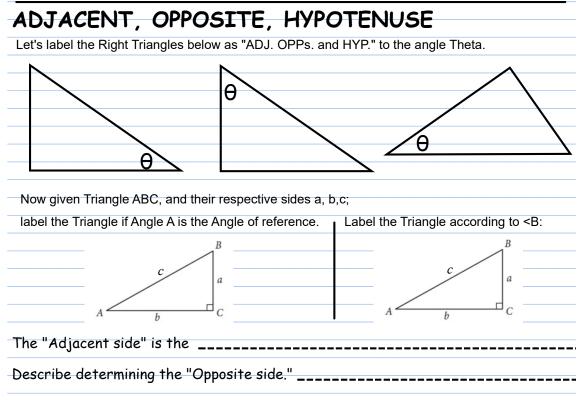
And, your cell phone's length is (about) times smaller.

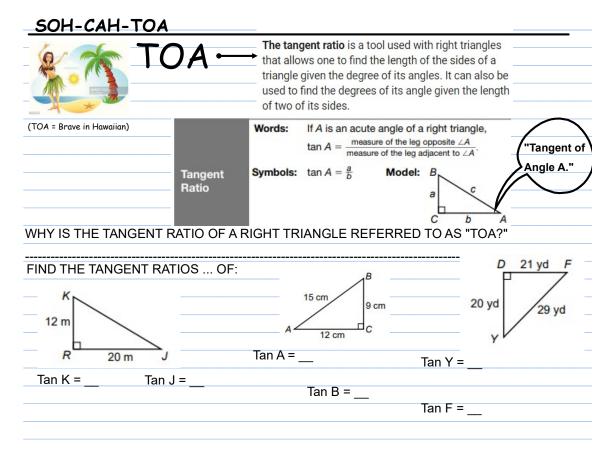
SO WHAT IS RATIO? ...

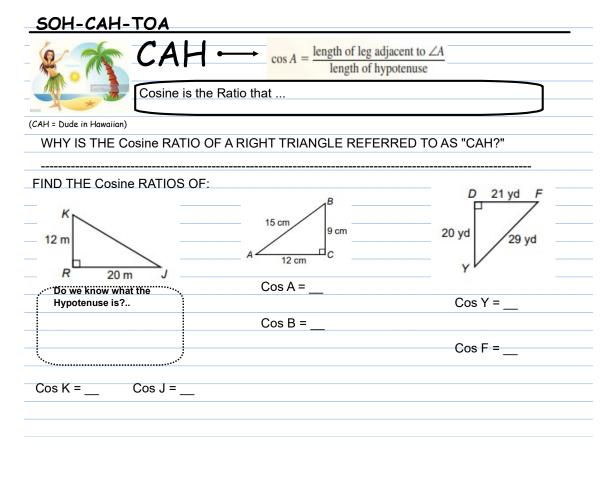
because in Trigonometry, there are 3 famous ratios: Tangent, SIne, and Cosine.

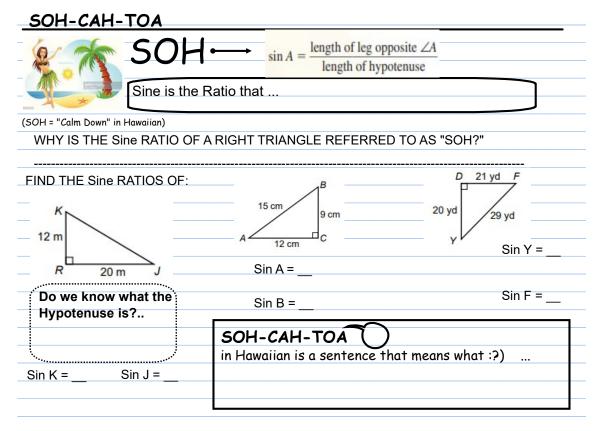
гне	GRE	EEK ALPI	HABET	
α	A	alpha	a	kOol fACtOR:
β	В	beta	b	Ī
γ	Г	gamma	g	What is your Name in Greek?
δ	Δ	delta	d	vinut is your nume in dieek?
3	E	epsilon	e	
ζ	Z	zeta	Z	My Example: Mr. A. Sanchez
η	Н	eta	ē	
θ	Θ	theta	th	
ι	Ι	iota	i	Μρ. Α. Σανχεζ
κ	K	kappa	k	<u>P</u> - 5
λ	Λ	lambda	1	Your Turn, Your Name:
μ	M	mu (moo)	m	your Turn, your Name.
ν	N	nu (noo)	n	
July	Ξ	xi (ksee)	x	<u> </u>
0	0	omicron	0	
π	П	pi (pee)	р	Theta" can be used as an unknown
ρ	Р	rho	r, rh	
σ, ς	Σ	sigma	S	angle, or angle of reference
τ	Т	tau	t	
υ	Y	upsilon	u, y	in Trigonometry.
φ	Φ	phi (phee)	ph	
X	X	chi (khee)	ch/kh	i - I
ψ	Ψ	psi (psee)	ps	
ω	Ω	omega	ō	θ

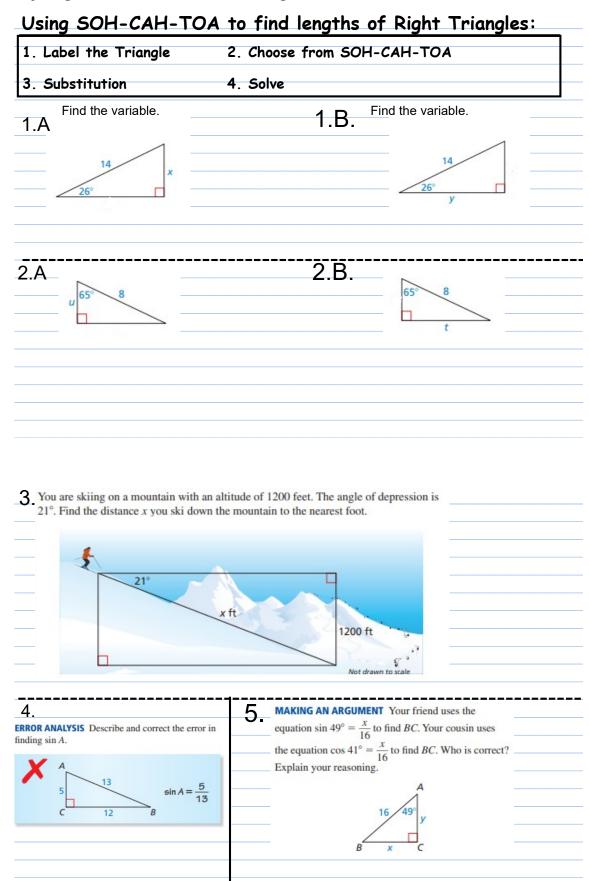
In Trig. you first need to learn how to identify and label according to the Angle of Reference

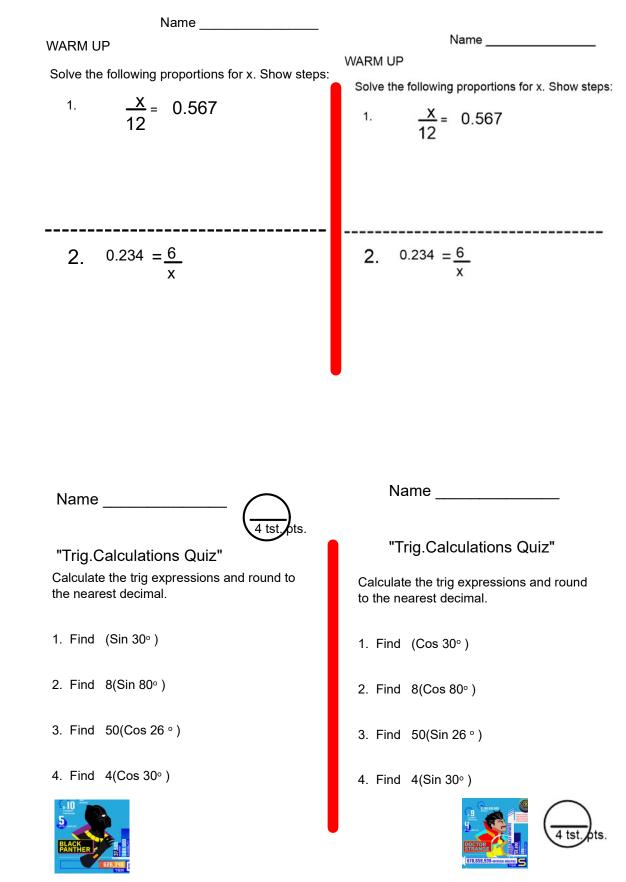


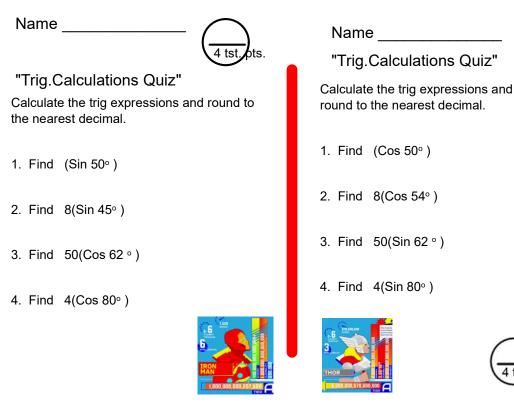


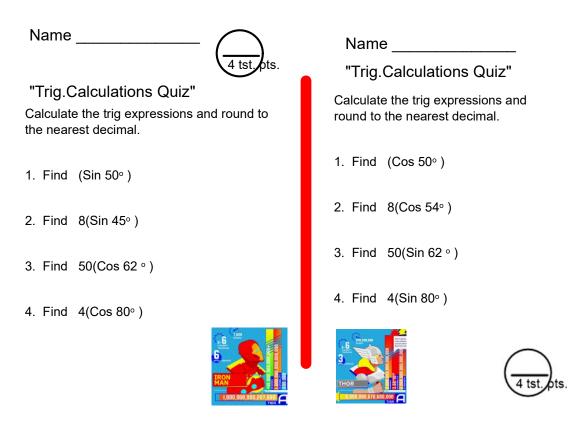




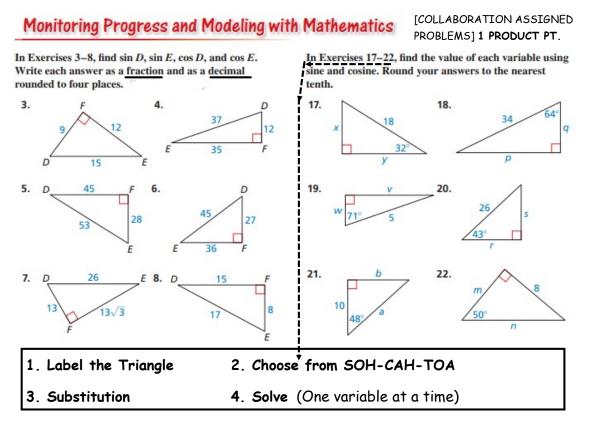








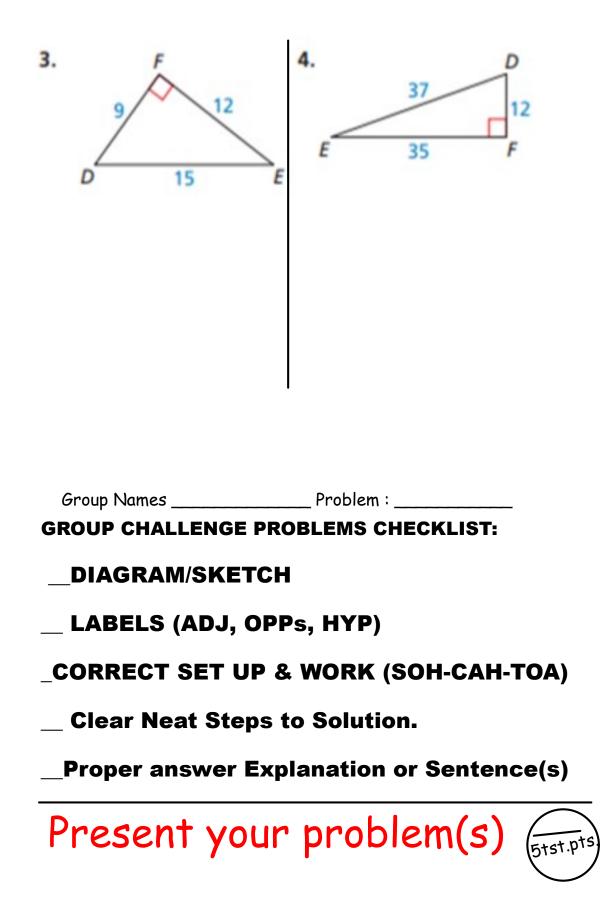
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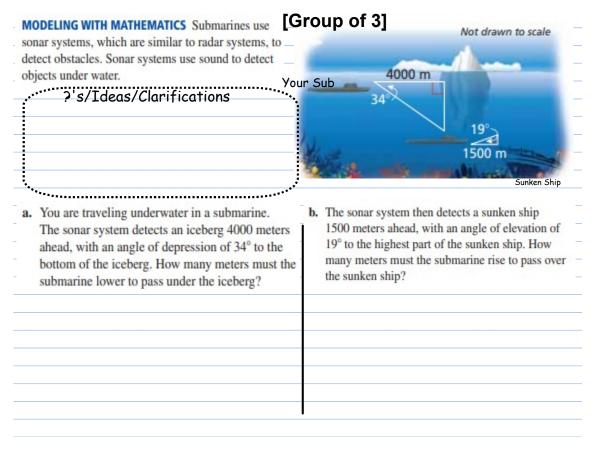


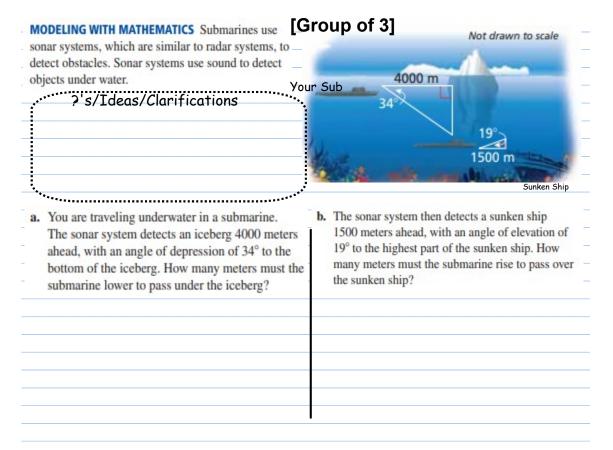


The Competition continues, "beast coast" vs "best coast."

- * Balance teams
- * Relay approach
- *All participate. *Winner gets Scholar for Treats next week \$\$

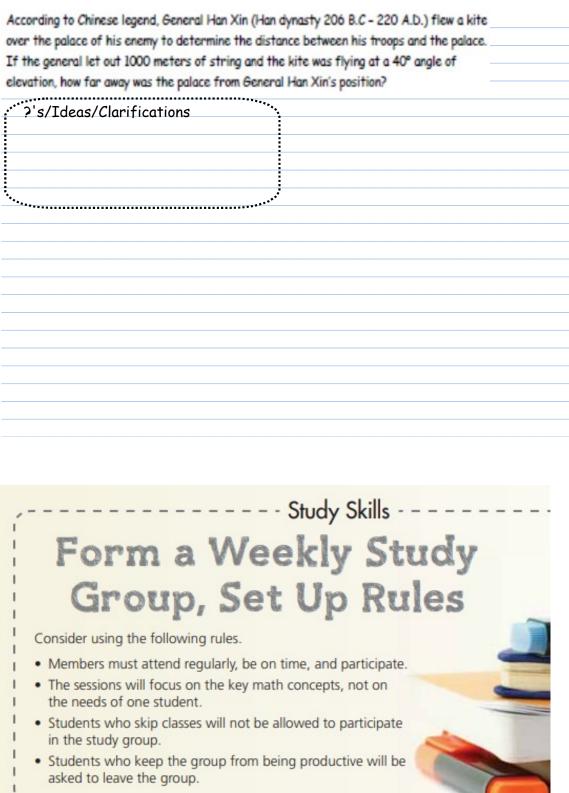






[Individual or Partners] An airplane is flying at an altitude of 11,000 feet. The pilot wants to make a smooth final descent to runway at an angle of depression of 5°. How far from the runway should the pilot begin the descent? ?'s/Ideas/Clarifications

ving angle of	your camera is set at 90°. How far from the moai should you
	entire height of the moai is perfectly framed in the photo?
id so that the	entire height of the moai is perfectly framed in the photo?
d so that the	entire height of the moai is perfectly framed in the photo?
d so that the	entire height of the moai is perfectly framed in the photo?
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id so that the	entire height of the moai is perfectly framed in the photo?



Link to Quiz