iou	us Knowledge:				
	The largest side of a triangle is across (opposite) from the				
	The of a right triangle is always across from the				
3)	The Pythagorean Theorem is	And c is always used for the			
	1) What variable represents the hypotenuse?	= 8 and r = 15 then w =			
	2) What variable represents the hypotenuse?	= 25 and r = 24 then w =			
3. F	4. T 5 mi N 2 mi	5. X IS yd. A			
		A) 424 B) $4\sqrt{106}$ C) $2\sqrt{106}$ D) $106\sqrt{2}$			
6. F	Find the missing side 7.	8. 9 5			

____DATE_____PER._
Introduction to Pythagorean Theorem Assignment Use the Pythagorean Theorem to find the missing length. Give answers to nearest hundredth. 1. a = 8 and b = 6.

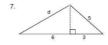
Solve each problem. Round to the nearest hundredths.











8. The slide at the playground is 12 feet tall. If the bottom of the slide is 15 feet from the base of the ladder, how long is the slide?



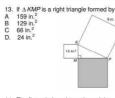
Page 1 of 2 (continue on)

9. If you place a 16 ft ladder 6 feet from a wall, how high up the wall will it go?

Jim headed south 5 miles from his house to the cleaners. From there he headed west to meet his friends. They were at a park 3 miles away. How far would he have to go if he went straight home?

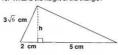
12.There is a restaurant diagonally across a rectangular field from Jeff's dorm. If he followed the roads, he would have to go 2 blocks north and 3 blocks east. Each block is 100 ft long. How much shorter would it be for him if he walked diagonally across the field instead?

MULTIPLE CHOICE: Find the correct answer for each of the following. Clearly circle your answers. WORK MUST BE SHOWN IN ORDER TO RECEIVE CREDIT.



14. The figure below shows three right triangles joined at their right-angle vertices to form a triangular pyramid. Which of the following is the closest to the length of XZ?

- A. 7 inches B. 20 inches C. 12 inches D. 9 inches
- 15. The legs of a right triangle are 4 cm and 7 cm long. To the nearest cm, how long is the hypotenuse?
 - A. 11 cm
 - B. 10 cm
 - C. 14 cm D. 8 cm
- 16. What is the height of the triangle?



A. 2 cm B. 1 cm C. $5\sqrt{2}$ cm D. $5\sqrt{10}$ cm

Page 2 of 2 (STOP)

NAME				DATE	PER.
				rse and Inequalitie	
Determine if a triangle	can be forme	d wit	h the given	lengths. If so, classify	the triangle by angles.
1. 7, 20, and 12	YES	or	NO	Classify:	
2. 15, 8, and 17	YES	or	NO	Classify:	
3. 12, 10, and 8	YES	or	NO	Classify:	2
4. 20, 8, and 19	YES	or	NO	Classify:	
5. 16, 30, 34	YES	or	NO	Classify:	
6. 80, 71, and 5	YES	or	NO	Classify:	

Find the indicated length.



8. A rectangle has a diagonal of 2 and a length of $\sqrt{3}$. Find its width.

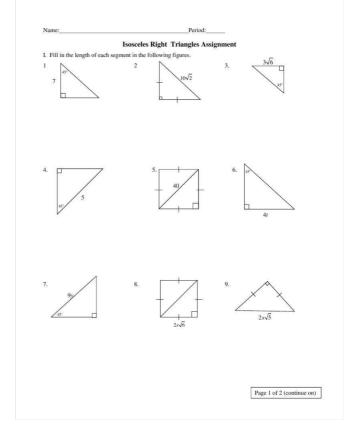


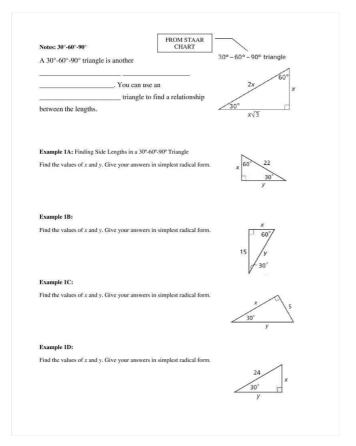


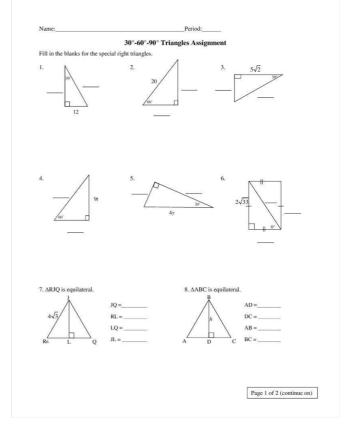
10. If you had a 20 ft ladder, how far away from a building would you have to place the bottom to reach a window 15 feet up?

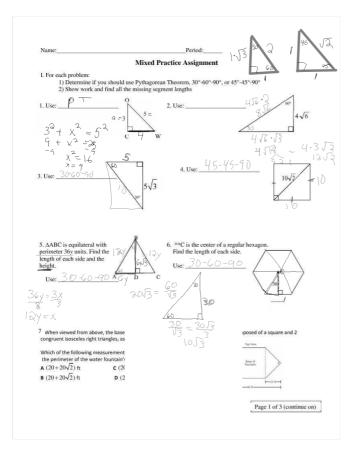


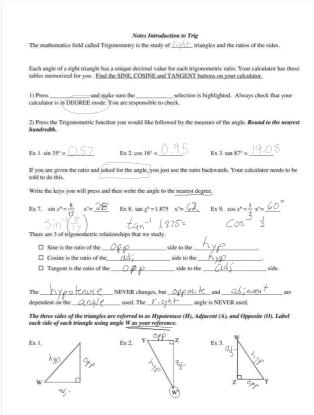
Page 1 of 2 (continue on)

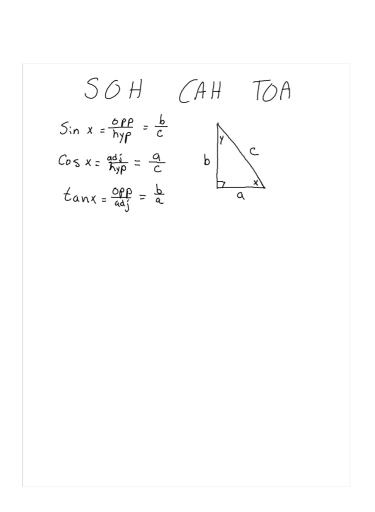


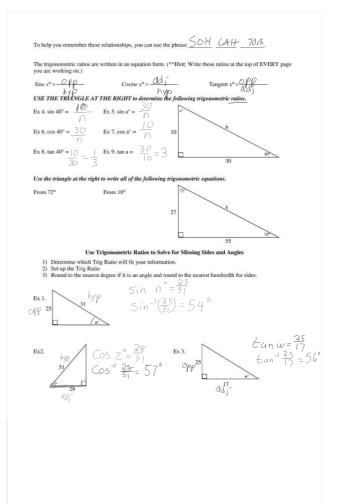












	Introduction to Trig Worksheet
	10 TO 10
	ttons you would push to get the answer for the following problems. Do not forget to e mode. Then answer the problems.
1. sin 40° =	<u> </u>
2. $\tan x^{\circ} = \frac{5}{7.5} x^{\circ} = \frac{5}{5}$	
The three sides of t each side of each to	he triangles are referred to as Hypotenuse (H), Adjacent (A), and Opposite (O). Label iangle using angle D as your reference.
I. D	2. F 3. D F
Use the triangles b	clow to write all 6 trig equation from the two acute angles. 5. a
10	n 36 70 8 8 48

Page 1 of 3 (continue on)

