Notes – Areas & Missing Parts #2	Name:		
(advanced with Trig)	7		
Standard:	Hour:		

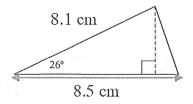
Objective: I can calculate the area of common shapes and find missing parts given the area.

Warm-up: Write the formulas for the area of each figure

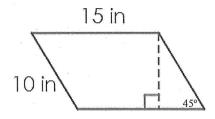
warm-up: write the formulas	ioi tile alea o	reach figure.	· · · · · · · · · · · · · · · · · · ·
Rectangle		Circle	Trapezoid
Parallelogram		Triangle	Triangle
			The area of triangle can also be found from two sides and the angle in between them using Trigonometry.
			$A = \frac{1}{2} \text{ (side_1)(side_2) sin(angle)}$ $A = \frac{1}{2} \cdot 2 \cdot 5 \cdot 6 \cdot 6$
	8 2 9 9 4 9		A = 14.79 $\frac{10}{25^{\circ}}$

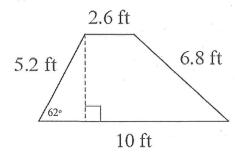
Directions: Find the area of each figure. If there is an *, then the answer should be exact. Round to the nearest tenth for all other problems.

1.

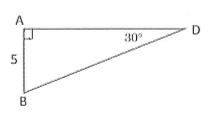


2.



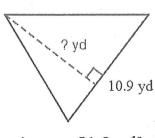


4. *



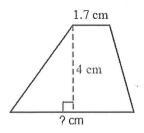
Review & SAT Prep

5. Find the missing height.



Area = 51.2 yd^2

6. Find the missing base.



Area = 14.8 cm^2

Step 1: Rearrange the formula for ___



Step 1: Rearrange the formula for _____.
$$A = \frac{1}{2} h(b_1 + b_2)$$

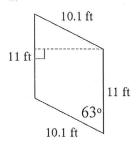
Step 2: Now fill in numbers and calculate.

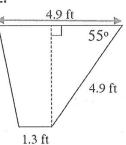
Step 2: Now fill in numbers and calculate.

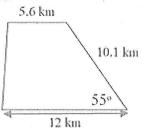
Hmwk- Area 4 Missing Parts #2

Date Name:

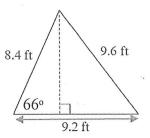
(use exact Values for #5+4) Find the area of each figure. Round to the nearest hundredth (2 decimals) if necessary.



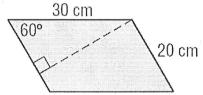




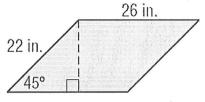
4.

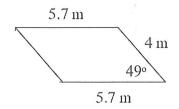


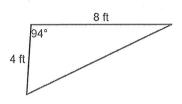
5. USE EXACT VALUES



6. Use exact Values







Find the radius of each circle. Round to the nearest tenth. Be sure to use your calculator's value of pi NOT 3.14.

9. Circle with $A = 162.9 \text{ m}^2$

10. Circle with $A = 373.3 \text{ mi}^2$

Rewrite the equation in terms of the indicated variable.

11.
$$a^2 + b^2 = c^2$$
 solve for a

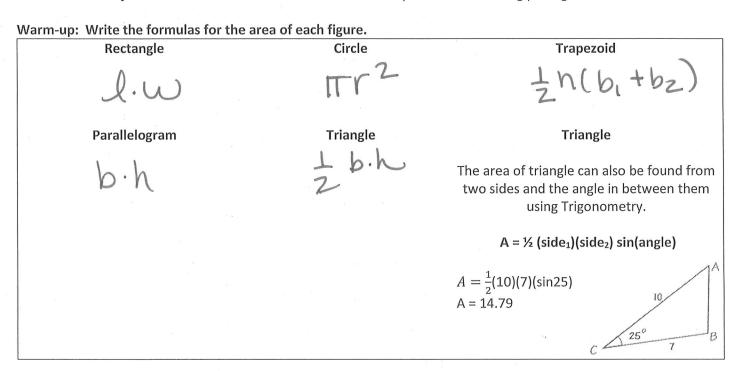
12.
$$A = \pi r^2$$
 solve for r

13.
$$A = \frac{h(b_1 + b_2)}{2}$$
 solve for h.

14.
$$\frac{pV}{T} = nR$$
 solve for T

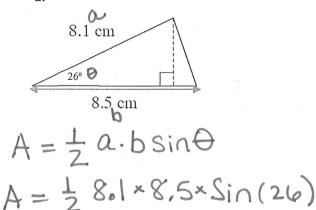
Notes – Areas & Missing Parts #2	Name:	
(advanced with Trig)	hey	
Standard:	Hour:	

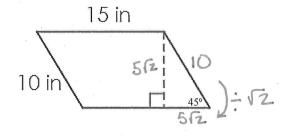
Objective: I can calculate the area of common shapes and find missing parts given the area.



Directions: Find the area of each figure. If there is an *, then the answer should be exact. Round to the nearest tenth for all other problems.

1.

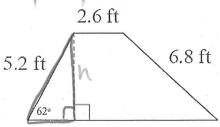




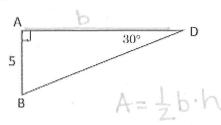
$$A = b \cdot h$$

 $A = 15 \cdot 5 \sqrt{2}$
 $A = 75 \sqrt{2} \text{ in}^2$





4. *



10 ft

Find h

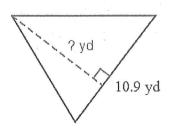
$$A = \frac{1}{2}h(b_1 + b_2)$$

 $A = \frac{1}{2}49(10 + 2.6)$

Find b = 513

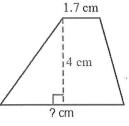
Review & SAT Prep

5. Find the missing height.



Area = 51.2 yd^2

6. Find the missing base.



 $Area = 14.8 \text{ cm}^2$

Step 1: Rearrange the formula for \underline{N} .

$$A = \frac{bh}{2}$$
 $A = \frac{bh}{2}$
 $51.2 = \frac{1}{2}10.9 \cdot h$
 $61.2 = 5.45h$

Step 2: Now fill in numbers and calculate.

Step 1: Rearrange the formula for $A = \frac{1}{2}h(b_1 + b_2)$

$$14.8 = \frac{1}{2}4(b+1.7)$$

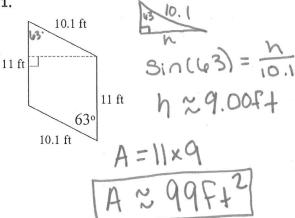
 $14.8 = 2(b+1.7)$
 $14.8 = 2b+3.4$
 $11.4 = \frac{2}{2}$ $b = 5.7$ cm

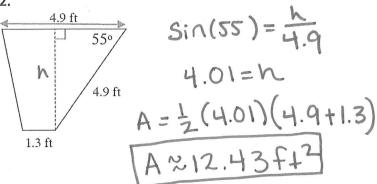
Step 2: Now fill in numbers and calculate.

Hmwk-Area & Missing Parts #2

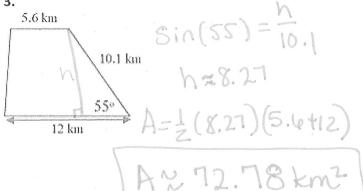
Date

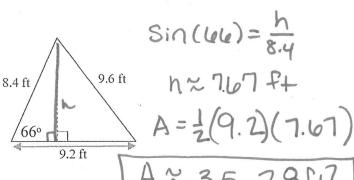
Find the area of each figure. Round to the nearest hundredth (2 decimals) if necessary.





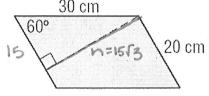
3.





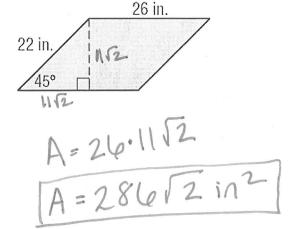
A ~ 35,28ft

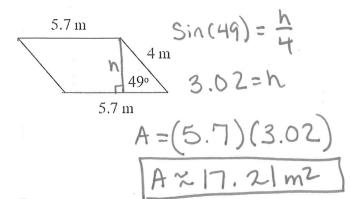
5. USL exact values for #5+6



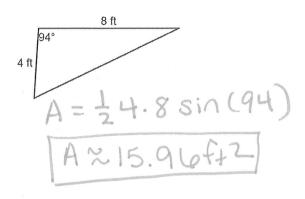
$$A = 300\sqrt{3} \text{ cm}^2$$

6.





8.



Find the radius of each circle. Round to the nearest tenth. Be sure to use your calculator's value of pi NOT 3.14.

9. Circle with $A = 162.9 \text{ m}^2$

$$TTr^2 = A$$
 $Tr^2 = 162.9$
 $\Rightarrow bothorization in the sicker to the sicker$

10. Circle with $A = 373.3 \text{ mi}^2$

$$\pi r^2 = \frac{\lambda}{4}$$

$$\pi r^2 = 373.3$$

$$\pi r^2 = 118.83$$

$$\pi r^2 = 10.9 \text{ mi}$$

Rewrite the equation in terms of the indicated variable.

11.
$$a^2 + b^2 = c^2$$
 solve for a

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

12.
$$A = \pi r^2$$
 solve for r

13.
$$A = \frac{h(b_1 + b_2)}{2}$$
 solve for h.

$$A = \frac{h(b_1 + b_2)}{2} h = \frac{2A}{b_1 + b_2}$$

$$\frac{2A = h(b_1 + b_2)}{(b_1 + b_2)} (b_1 + b_2)$$

14.
$$\frac{pV}{T} = nR$$
 solve for T