-	
2	
ame	
ann	

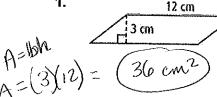
ANSWERS

Period Date

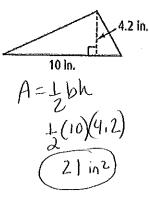
Geometry 22: 10.1-10.5 Extra Practice

nd the area of each figure. Round your answers to the nearest hundredth.

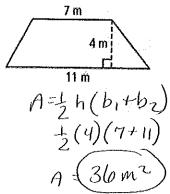
1.

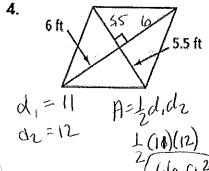


2.

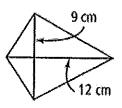


3.

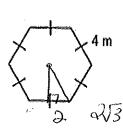




5.

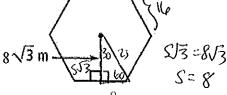


6.





7.



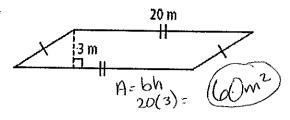
a=8/3

A= \$(8/3)(A6)

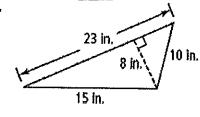
384 13 2 666.81 m2

Find the area of each figure. Leave your answer in simplest radical form.

1.



2.



\$665.11m2

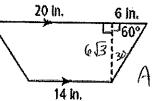
A=Jbh

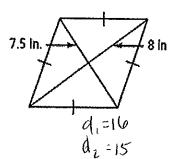
±(23)(8)

3.



h =6/3



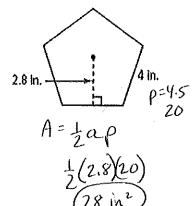


A=tdidr

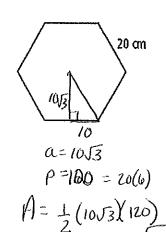
1201/2

Find the area of each regular polygon. Round your answer to the nearest tenth.

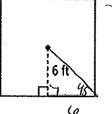
5.



6.

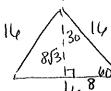


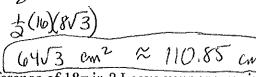
7.



$$A = \frac{1}{2}(6)(48)$$

8. An equilateral triangle has a perimeter of 48 cm. What is its area?





60053 2/1039, 2 cm2

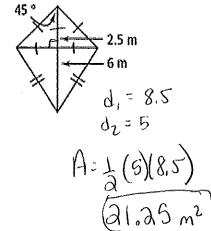
9. What is the area of a circle with a circumference of 18π in.? Leave your answer in terms of π .

10. Find the area of each of the given diagrams below. Round your answers to the nearest hundredth.

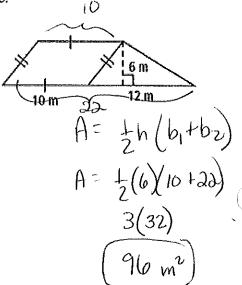
a.

12= 5/2 S=12. [2. 12. 15. 652 A= tap, 10/1

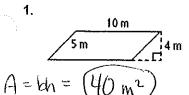
b.

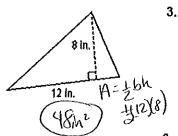


c.

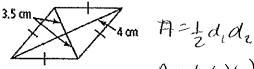




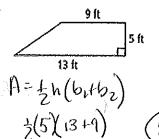


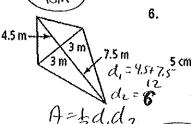


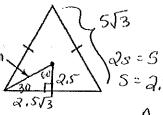
d,=7 d2=8











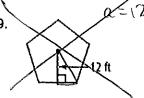
$$A = \frac{1}{2}(2.5)(15\sqrt{3})$$

7. A trapezoid has an area of 91 m². The height of the trapezoid is 7 m and the measure of one base is twice the height. What is the measure of the other base of the trapezoid?
$$h=9$$
 $h=7$ $b_1=2(1)=14$

8. The base of a triangle is 2 more than twice the height of the triangle. Find the measure of the base and the height if the area is
$$20 \text{ ft}^2$$
 (2h+2)(h) $h = 2h+2$ $h = \frac{1}{2}bh$ $h = \frac{1}{2}bh$

$$\begin{array}{c|c}
11 - \frac{1}{2}(1)(14 + b_2) \\
91 - \frac{1}{3}(1)(14 + b_2) \\
\hline
3 - \frac{1}{3}(1)(14 + b_2)
\end{array}$$





5(12)(6)

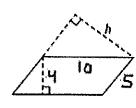
$$\frac{2h^2+2h}{2}$$

$$20 = h^2 + h \left(12 = b_2\right)$$

11. Find the value of h for each parallelogram below.
$$\frac{1}{50.12}$$

5453

a.





12. Find the area of each rhombus.





$$x^2 = 36 - 16$$

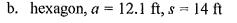
$$x^2 = 20$$

$$x = \sqrt{20} = 2\sqrt{3}$$

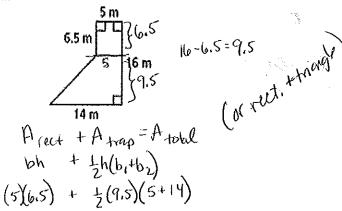
13. Find the area of each regular polygon with the given anothem a and side length s.

a. pentagon, a = 4.9 in., s = 7.1 in.

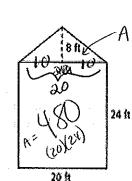
$$P = (1.11/5)$$
 $A = \frac{1}{2}(4.9)(35.5)$



14. Find the area of the composite figures below.



b.

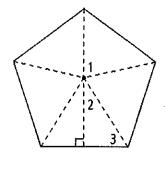


-A= 1 bh = 1 (20)(3)=80

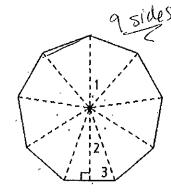
32.5 + 90.25 (122.75 m²)

15. Each regular polygon below has a radii and apothem as shown. Find the measure of each numbered angle.

a.

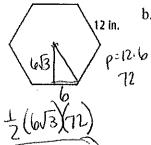


b.

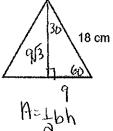


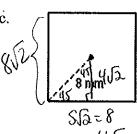
16. Find the area of each regular polygon. Keep your answers exact (as radicals).

a.

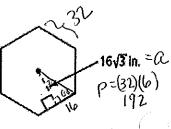


b,





d.



5=450,

*	GOOD	FOR
---	------	-----

YOU For checking Answers I in Print Yhis page and turn it in at

17. If the area of a parallelogram is 224 in² and the height is 14 in, what is the base?

224 = b(14) b = 16 in18. If the area of a trapezoid is 108 m². It has a base 15 m and the other base is 12 m. What is the height?

ezoid is 108 m². It has a base 15 m and the other base is 12 m. What is the height?
$$b = 108$$
 $b = 15$ $b_2 = 12$

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

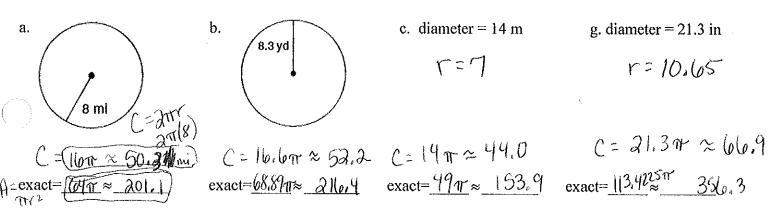
$$108 = \frac{1}{2}(h)(15+12)$$

$$a16 = 27h$$

19. If the area of a triangle is 143 in². It has a base 22 in. What is the height?

$$A = 143$$
 $A = \frac{1}{2}bh$
 $143 = \frac{1}{2}(22)h$
 $h = 13$

20. Find the circumference and area of each. Leave answers in exact terms AND rounded to nearest tenth.



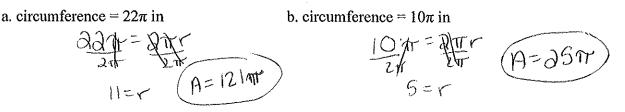
21. Find the radius of each circle:

a. Area = 64π in²

a. area =
$$64\pi \text{ mi}^2$$

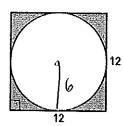
b. area = $36\pi \text{ mi}^2$
 $V = 8$
 $C = 16\pi$
b. area = $36\pi \text{ mi}^2$
 $36\pi = 7^2$
 $7 = 6$

23. Find the area of each circle. Leave your answer in terms of π .

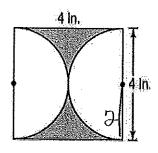


24. Find the area of the shaded regions.

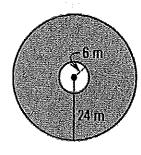
a.



b.



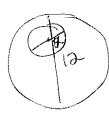
c.



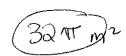
Ashadled \30.9



25. Charlie has a circular carpet in his drawing room. He wants to put a table in middle of the carpet. The diameter of the carpet is 12 meters and the diameter of the table is 4 meters. Calculate how much area of carpet is left after putting table the table in the place. Leave your answer in terms of π .



$$A_{r=6} = 36\pi$$



26. Maya makes a round pizza. She wants to put a cheese layer on the pizza. If the flattened pie dough is 8 cm in diameter, how many square cm of cheese layer does she need to put on the pizza? Round your final answer to the nearest hundredth.

