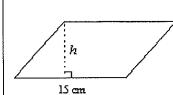
## Geometry 10.1-10.3 Review

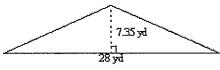
Name: 2. Find the area

Hour:

1. The area of the parallelogram is 150cm<sup>2</sup>. Find the height.

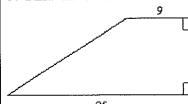


150 = 15hh=10 cm



 $A = \frac{1}{2}(7.35)(28)$   $A = 102.9 \text{ ya}^2$ 

3. Find the area.



1 A=170 units

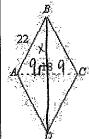
4. Find the area.

20.8 in.

20.6 in

A= = = (12.8)(20.8 +30.8)  $\frac{(H = 330.24 \text{ m}^2)}{6. \text{ Find the area of the regular polygon. Round your}}$ 

5. Find the area of the rhombus to the nearest tenth.

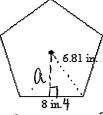


 $\chi^2 + 9^2 = 22^2$ x2=403 x = 20.1

A=±(18)(40.15)

A=361.3 units2

answer to the nearest tenth.

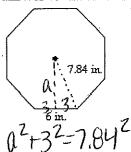


A=± (5.511)(8x5)

12+42-10812 az=30,3761

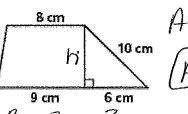
a=5,511

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



A-2(7.243)(6\*8) [A=173,8 m2

8. Find the area.

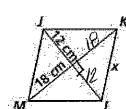


h2+62=10 h2=104 h=8

- a2-52.4656
- Q=7.243

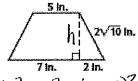
- 9.
- . IKLM is a rhombus.

Find x to the nearest tenth.



$$x = 18^{2} + 12^{2} = x^{2}$$
  
 $x^{2} = 468$   
 $x = 21.6 cm$ 

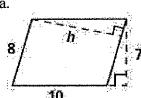
10.



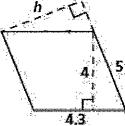
$$h^{2} + 2^{2} = (2\sqrt{10})^{2}$$

$$h^{2} = 36$$

- h=6
- 11. Find the value of h in each parallelogram.

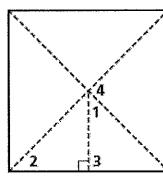






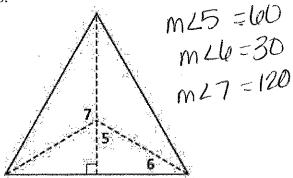
13. Find the area of a regular pentagon that measures 6 m on a side and has an apothem 4.1 m long.

11. Each regular polygon has radii and apothem as shown. Find the measures of the numbered angles.

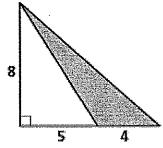


m41 = 45 m L2 = 45 ML3 = 90 m24 = 90

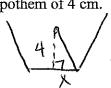
**b**.



12. Find the area of the shaded region.

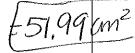


14. Find the area of a regular decagon with an apothem of 4 cm.



em of 4 cm. 360 = 36 = 18 410 = 36 = 18 10 = 36 = 18 10 = 36 = 18 10 = 36 = 18 10 = 36 = 18 10 = 36 = 18

A= = = (4) (2,5994 × 10) = 51,99 cm2



- a. 24 cm<sup>2</sup>
- b. 26 cm<sup>2</sup>
- c.  $180 \text{ cm}^2$
- d. 240 cm<sup>2</sup>

## Geometry 10.4-10.5 Review

Name:

Hour:

1. The areas of two similar triangles are 49 cm<sup>2</sup> and 16 cm<sup>2</sup>. What is the ratio of the corresponding side lengths? Of the perimeters?

A.R= 49

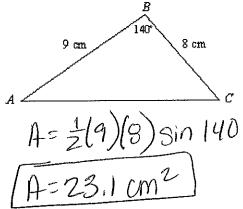
5.R= 74

P.R=714

3. Find the ratio of the perimeter of the larger rectangle to the perimeter of the smaller rectangle.

	<u>_</u>	
3 A		
	10 ft	
	12.0	
	3 "	
	3 A	3 ft

5. Find the area of the triangle.



- 7.  $\square RST\square XYZ$  and  $RS = \frac{3}{2}XY$ . Which of the following is true?
- A. The ratio of the perimeters of  $\Box RST$  to  $\Box XYZ$  is  $\frac{9}{4}$ .
- B.  $m \angle R = \frac{3}{2} m \angle X$
- C. The ratio of the areas of AXYZ to ARST is  $\frac{9}{4}$ .
- D. None of the above.

2. The area of a regular octagon is 25 cm<sup>2</sup>. What is the area of a regular octagon with sides four times as large?

$$\frac{1}{16} = \frac{25}{X}$$

[X=400 cm2]

4. Find the area of a regular pentagon with radius 9 meters.

(US 36 = 4

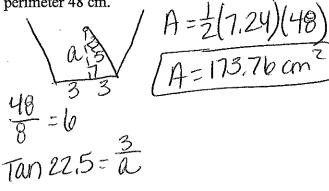


 $A = \frac{1}{2} (7.28) (10.58)$ 

 $61n36 = \frac{x}{4}$ x = 5.29 A=192.6m2

Side = 10.58

6. Find the area of a regular octagon with perimeter 48 cm.



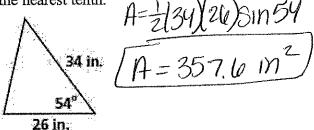
Q=7,24

8. The shorter sides of a rectangle are 6 ft. The shorter sides of a similar rectangle are 9 ft. The area of the smaller rectangle is 48 ft<sup>2</sup>. What is the area of the larger rectangle?

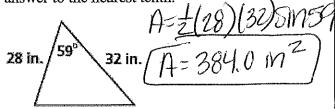
$$\frac{6^{2}}{9^{2}} = \frac{48}{x}$$

$$(x=108 f+3)$$

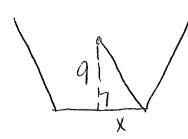
9. Find the area of the triangle. Round your answer to the nearest tenth.



10. Find the area of the triangle. Round your answer to the nearest tenth.



11. Find the area of a regular octagon with apothem 9 ft.



Tan 22.5 = 
$$\frac{x}{9}$$
  
  $x = 3.73$   
  $side = 7.46$ 

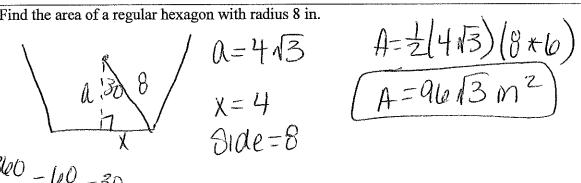
rea of a regular octagon with apothem 9 ft.

Tan 22.5 = 
$$\frac{x}{9}$$
 $X = 3.73$ 

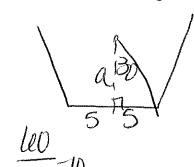
Side = 7.46

$$\frac{360}{8} = \frac{45}{2} = 22.5$$

12. Find the area of a regular hexagon with radius 8 in.



13. Find the area of a regular hexagon with perimeter 60 cm.



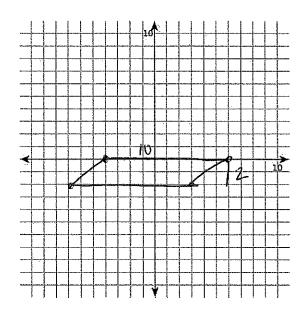
$$a=5.63$$
  $A=\pm (5.63)(60)$   
=  $150.63$  cm<sup>2</sup>

Date: \_\_\_\_\_ Period: \_\_\_\_

Find the PERIMETER and AREA of each figure. Be sure to SHOW ALL WORK!

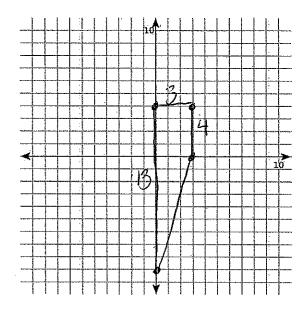
1) Parallelogram with vertices at:

(-4, 0), (6, 0), (3, -2), and (-7, -2).



Perimeter:

2) Trapezoid with vertices at: (0, 4), (3, 4), (3, 0), and (0, -9)

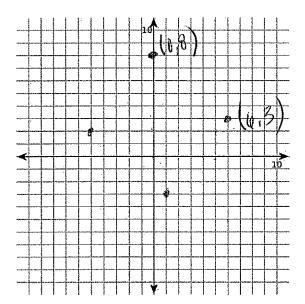


Perimeter:

Area: 10 wn/152

Area: 25.5 mits A= = 2(3)(4+13)

- 3) Square with vertices at:
- (0, 8), (6, 3), (1, -3),and (5, 2).



Perimeter:

Area: U unit52

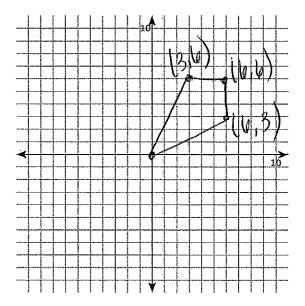
$$d = \sqrt{(6-0)^2 + (3-8)^2}$$

$$= \sqrt{36 + 25}$$

$$= \sqrt{41}$$

4) Kite with vertices at:

(0,0),(3,6),(6,3), and (6,6)



Perimeter:

Area: 8 MITS

$$d = (6-3)^2 + (3-6)^2$$

$$= \sqrt{9+9} \qquad A = \frac{1}{2} (\sqrt{18})(\sqrt{72})$$

$$= \sqrt{18}$$

$$d = 1(10-0)^2 + (10-0)^2$$

$$= \sqrt{3(0+3)0}$$