

**UNIT 9 CORRECTIVE ASSIGNMENT**

**NAME:** \_\_\_\_\_

**Area of Polygons and Circles**

**DATE:** \_\_\_\_\_

$A = bh$

$A = \frac{1}{2}bh$

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

$A = \frac{1}{2}d_1d_2$

$A = \pi r^2$

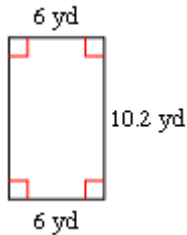
$C = 2\pi r$

**Find the area of each. Label your answer. Round to the nearest tenth.**

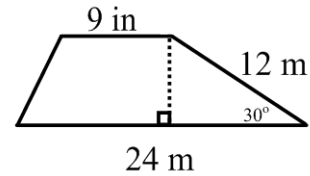
1. Triangle



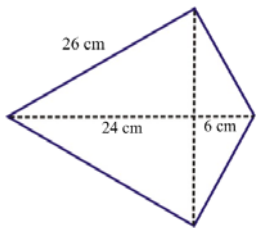
2. Parallelogram



3. Trapezoid added

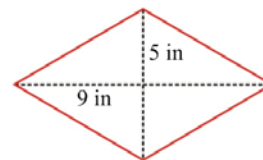


4. Kite added



5. Regular hexagon with side 8 miles.

6. Rhombus added

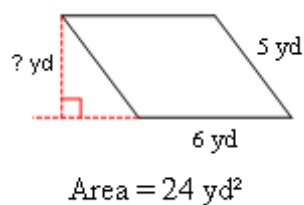


**Find the missing part. Label your answer. Round to the nearest tenth.**

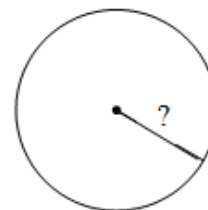
7. Triangle



8. Parallelogram

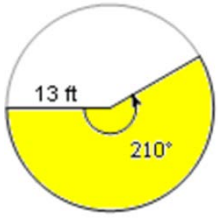


9. Circle K with Area = 353 m<sup>2</sup>



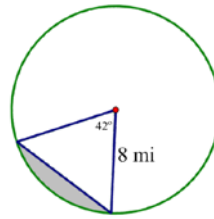
**Find the area of the sector. Round to nearest tenth.**

10.



**Find the area of the segment. Round to nearest tenth.**

11.



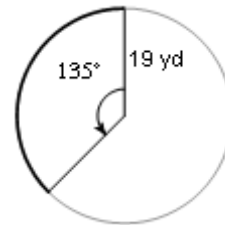
**Find the circumference. Leave in terms of pi.**

12.

Circle with diameter of 20 cm.

**Find the length of each arc. Leave in terms of pi.**

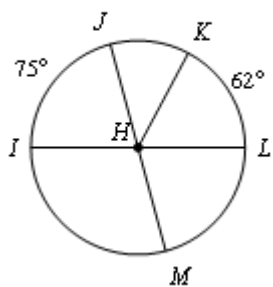
13.



**Find the measure of the central angle. Assume lines that appear to be diameters are.**

14.

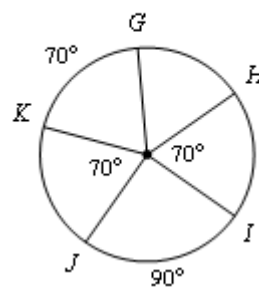
$m\angle IHK$



**Find the measure of the arc. Assume lines that appear to be diameters are.**

15.

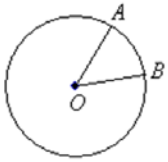
$m\widehat{IK}$



# APPLICATIONS

## 1. SAT PREP SHOW YOUR WORK!!!!

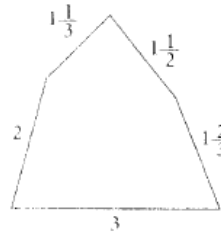
### MULTIPLE CHOICE



In the figure above, if  $\angle AOB = 40^\circ$  and the length of arc  $AB$  is  $4\pi$ , what is the area of the sector  $AOB$ ?

- (A)  $4\pi$
- (B)  $16\pi$
- (C)  $36\pi$
- (D)  $128\pi$
- (E)  $324\pi$

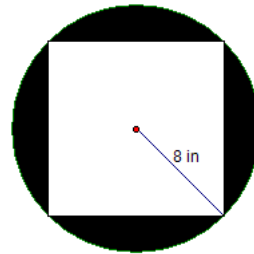
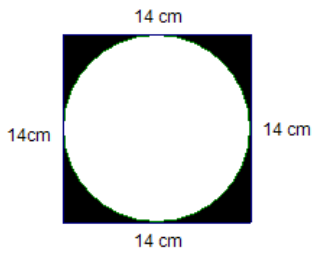
### GRID IN



What is the perimeter of the figure shown above?

•	•	•	•
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

## 2. SHADED REGION Find the area of the shaded region.

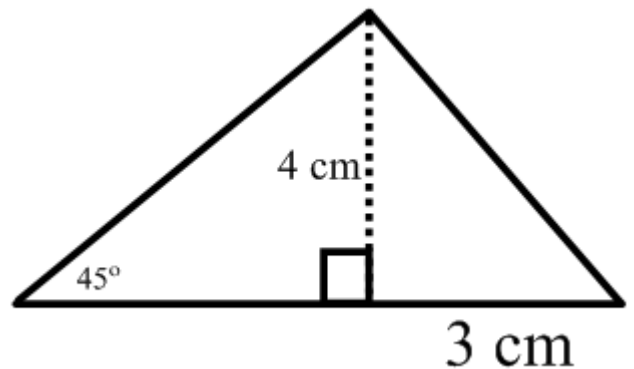


## 3. PERIMETER

Use the picture to the right to find...

Perimeter =

Area =



## Answers to Unit 9 Corrective Assignment

- 1)  $26.95 \text{ yd}^2$       2)  $61.2 \text{ yd}^2$       3)  $99 \text{ m}^2$       4)  $300 \text{ cm}^2$   
5)  $166.3 \text{ mi}^2$       6)  $90 \text{ in}^2$       7)  $11.4 \text{ mi}$       8)  $4 \text{ yd}$   
9)  $10.6 \text{ in}$       10)  $\frac{1183\pi}{12} \text{ ft}^2$       11)  $2 \text{ mi}^2$   
12)  $20\pi \text{ cm}$       13)  $\frac{57\pi}{4} \text{ yd}$       14)  $118^\circ$       15)  $160^\circ$

### APPLICATIONS

1. C	$9.5$ or $\frac{19}{2}$
2. $42.1 \text{ cm}^2$	$72.9 \text{ in}^2$
3. $p = 17.7 \text{ cm}$ $A = 14 \text{ cm}^2$	