

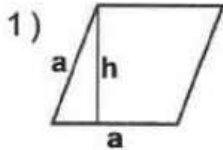
Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

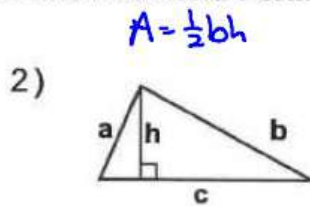
Date : \_\_\_\_\_

Identify and Calculate the Area and Perimeter for each Polygon.



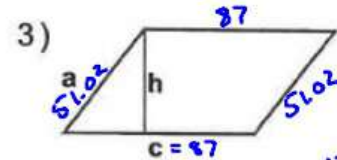
a = 57 cm h = 53.21 cm

$A = ah$   
 $(57)(53.21)$   
Area: 3032.97 cm<sup>2</sup>  
Perimeter: 228 cm  
Type: Rhombus



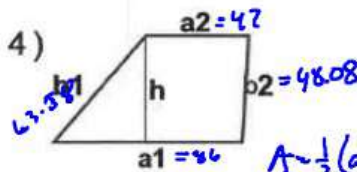
a = 45.86 inches b = 89.11 inches  
c = 97 inches h = 42 inches

Area: 2037 in<sup>2</sup>  
Perimeter: 231.97 cm  
Type: Triangle (common)



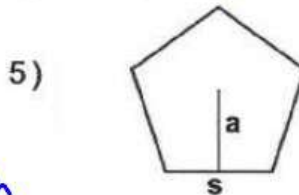
a = 51.02 cm c = 87 cm h = 47 cm

Area: 4089 cm<sup>2</sup>  
Perimeter: 274.04 cm  
Type: Parallelogram



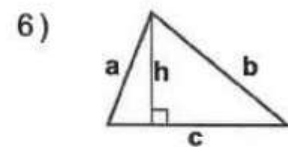
a1 = 86 ft a2 = 47 ft  
b1 = 63.58 ft b2 = 48.08 ft  
h = 48 ft

Area: 3192 ft<sup>2</sup>  
Perimeter: 238.66 ft  
Type: Trapezoid



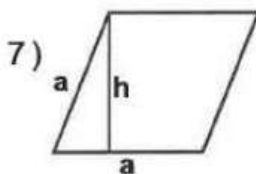
s = 79 ft a = 54.3671 ft

Area: 10,737.50 ft<sup>2</sup>  
Perimeter: 395 ft  
Type: Regular Pentagon



a = 54.75 yds b = 80.34 yds  
c = 82 yds h = 51 yds

Area: 2091 yd<sup>2</sup>  
Perimeter: 217.09  
Type: Triangle



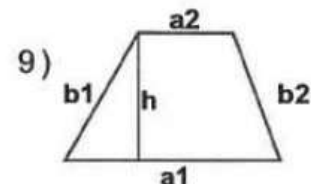
a = 68 yds h = 63.05 yds

Area: 4287.4 yd<sup>2</sup>  
Perimeter: 272  
Type: Rhombus



s = 51 inches a = 35.0977 inches

Area: 4474.96 in<sup>2</sup>  
Perimeter: 255  
Type: Pentagon



a1 = 98 mm a2 = 43 mm  
b1 = 66.99 mm b2 = 61.85 mm  
h = 58 mm

Area: 4089 mm<sup>2</sup>  
Perimeter: 269.84 mm  
Type: Trapezoid



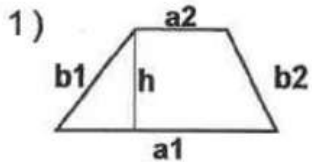
Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

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

**Identify and Calculate the Area and Perimeter for each Polygon.**

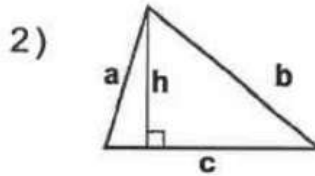


$a_1 = 94 \text{ ft}$     $a_2 = 39 \text{ ft}$   
 $b_1 = 53.84 \text{ ft}$     $b_2 = 47.1 \text{ ft}$   
 $h = 42 \text{ ft}$

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Type: \_\_\_\_\_

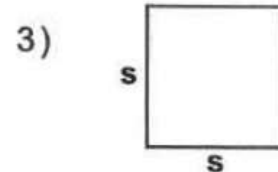


$a = 61.75 \text{ mm}$     $b = 94.46 \text{ mm}$   
 $c = 92 \text{ mm}$     $h = 59 \text{ mm}$

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Type: \_\_\_\_\_

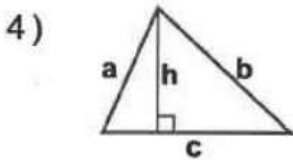


$s = 59 \text{ mm}$

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Type: \_\_\_\_\_

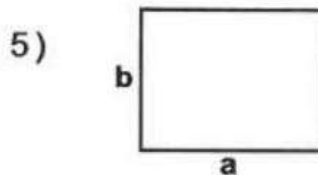


$a = 57.87 \text{ cm}$     $b = 77.66 \text{ cm}$   
 $c = 80 \text{ cm}$     $h = 53 \text{ cm}$

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Type: \_\_\_\_\_

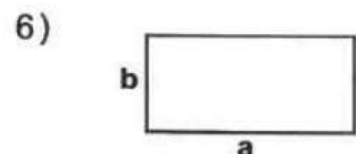


$a = 78 \text{ yds}$     $b = 60 \text{ yds}$

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Type: \_\_\_\_\_

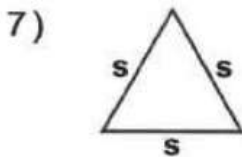


$a = 89 \text{ inches}$     $b = 41 \text{ inches}$

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Type: \_\_\_\_\_

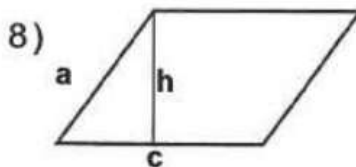


$s = 59 \text{ inches}$

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Type: \_\_\_\_\_

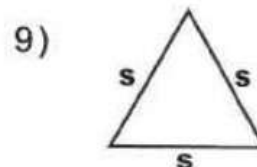


$a = 61.86 \text{ ft}$   
 $c = 88 \text{ ft}$     $h = 56 \text{ ft}$

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Type: \_\_\_\_\_



$s = 66 \text{ cm}$

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Type: \_\_\_\_\_



Name : \_\_\_\_\_

Score : \_\_\_\_\_

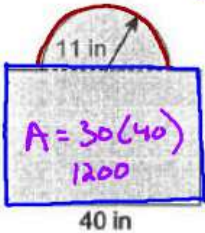
Teacher : \_\_\_\_\_

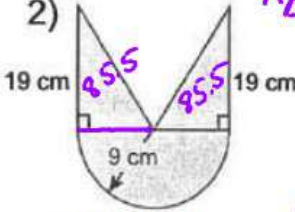
Date : \_\_\_\_\_

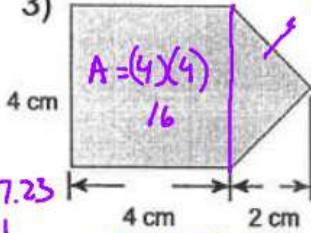
$$A = \pi r^2$$

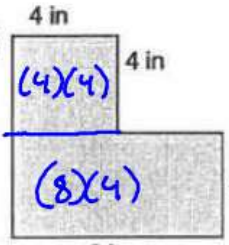
### Compound Shapes

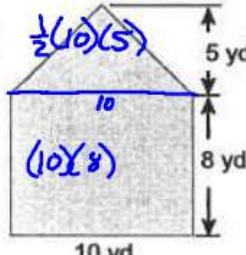
Find the area of each figure, round your answer to one decimal place if necessary.

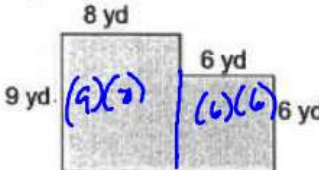
1)   $\frac{\pi(11)^2}{2} = 190.06$   
 $A = 30(40) = 1200$   
 $A_{\text{rect}} + A_{\text{semi-circle}}$   
 Area: 1390.1 in<sup>2</sup>

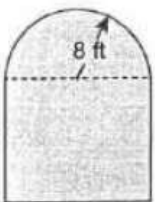
2)   $A_{\Delta} = \frac{1}{2}bh = \frac{1}{2}(9)(19) = 85.5$   
 $\frac{\pi(9)^2}{2} = 127.23$   
 $2(A_{\Delta}) + A_{\text{sc}}$   
 Area: 298.2 cm<sup>2</sup>

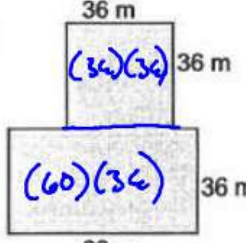
3)   $A = (4)(4) = 16$   
 $A_{\Delta} = \frac{1}{2}bh = \frac{1}{2}(4)(4) = 8$   
 $A_{\text{sq}} + A_{\Delta}$   
 Area: 20 cm<sup>2</sup>

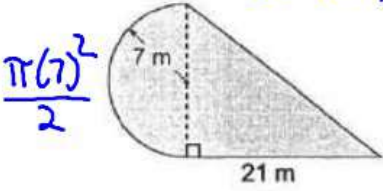
4)   $(4)(4)$   
 $(8)(4)$   
 Area: 48 in<sup>2</sup>

5)   $\frac{1}{2}(10)(5)$   
 $(10)(8)$   
 Area: 105 yd<sup>2</sup>

6)   $(8)(9)$   
 $(6)(6)$   
 Area: 108 yd<sup>2</sup>

7)   $A = \frac{1}{2}bh = \frac{1}{2}(8)(16) = 64$   
 $\frac{\pi(8)^2}{2}$   
 Area: 356.5 ft<sup>2</sup>

8)   $(36)(36)$   
 $(60)(36)$   
 Area: 3456 m<sup>2</sup>

9)   $A = \frac{1}{2}bh = \frac{1}{2}(21)(7) = 73.5$   
 $\frac{\pi(7)^2}{2}$   
 Area: 224 m<sup>2</sup>

Name : \_\_\_\_\_

Score : \_\_\_\_\_

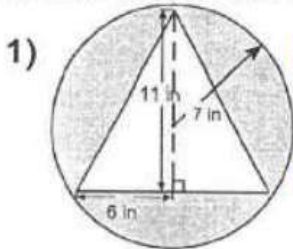
Teacher : \_\_\_\_\_

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

### Compound Shapes

*Shaded*

Find the area of each figure, round your answer to one decimal place if necessary.

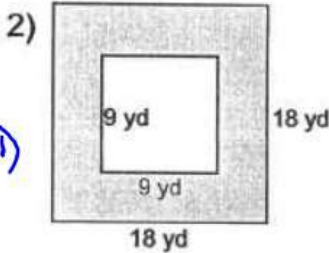


$$A_0 = \pi(7)^2 = 49\pi$$

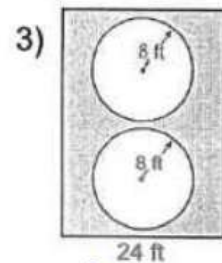
$$A_{\Delta} = \frac{1}{2}(6)(11) = 33$$

$$A_0 - A_{\Delta}$$

Area: 87.9 in<sup>2</sup>



Area: 243 yd<sup>2</sup>



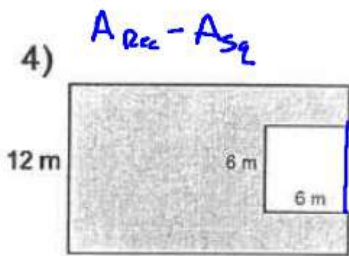
$$A_{\text{Rect}} = (24)(34) = 816$$

$$A_0 = \pi(8)^2 = 64\pi$$

$$A_{\text{Rect}} - 2A_0$$

Area: 413.9 ft<sup>2</sup>

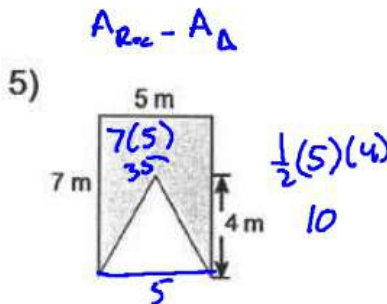
$$816 - 2(64\pi)$$



$$A_{\text{Rect}} - A_{\text{sq}}$$

$$(21)(12) - (6)(6)$$

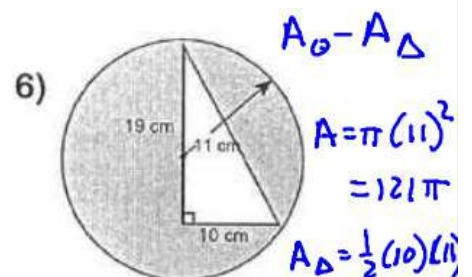
Area: 216 m<sup>2</sup>



$$A_{\text{Rect}} - A_{\Delta}$$

$$\frac{1}{2}(5)(4) = 10$$

Area: 25 m<sup>2</sup>



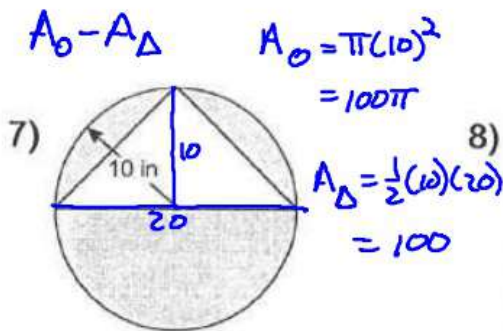
$$A_0 - A_{\Delta}$$

$$A = \pi(11)^2 = 121\pi$$

$$A_{\Delta} = \frac{1}{2}(10)(11) = 55$$

$$121\pi - 55$$

Area: 285.1 cm<sup>2</sup>

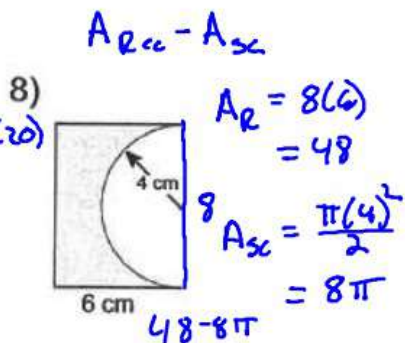


$$A_0 - A_{\Delta} \quad A_0 = \pi(10)^2 = 100\pi$$

$$A_{\Delta} = \frac{1}{2}(20)(10) = 100$$

$$100\pi - 100$$

Area: 214.2 in<sup>2</sup>



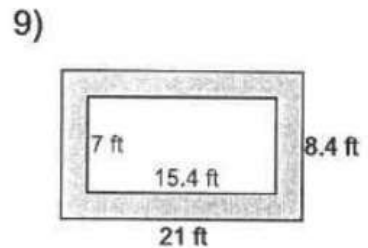
$$A_{\text{Rect}} - A_{\text{sq}}$$

$$A_{\text{R}} = 8(6) = 48$$

$$A_{\text{sc}} = \frac{\pi(4)^2}{2} = 8\pi$$

$$48 - 8\pi$$

Area: 22.9 cm<sup>2</sup>



Area: \_\_\_\_\_