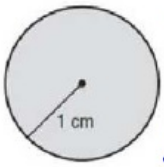
Name _____ Date _____ Per. _____

CIRCUMFERENCE, AREA OF CIRCLES, AREA OF COMPOSITE FIGURES-2

Find the area of each of the following composite figures. **Show all your work!** Round your answer to the nearest tenth if necessary. **Use the back if you need more space for work.**

You can find the formulas for area of the basic shapes on page 632 of your textbook.

1. Find the Circumference and Area of each circle



CIRCUMFERENCE = πd OR $2\pi r$

AREA = πr^2 $\pi \approx 3.14$

Circumference = $2(\pi)(1) = 2(3.14)(1)$

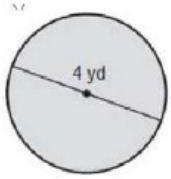
$6.28(1)$

$C = 6.28\text{cm}$

Area= $\pi(1^2)$

$3.14(1)$

$A = 3.14\text{cm}^2$



Circumference = $\pi(4) = 3.14(4)$

$C = 12.56\text{ yd}$

Area=

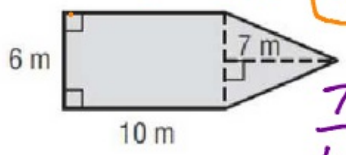
$d = 4$ so $r = 2$

$\pi(2^2)$

$3.14(4)$

$A = 12.56\text{ yd}^2$

2.



$60 + 21 = 81\text{m}^2$

RECTANGLE

$L \times W$ $L = 10$ $W = 6$

$10(6) = 60\text{m}^2$

TRIANGLE

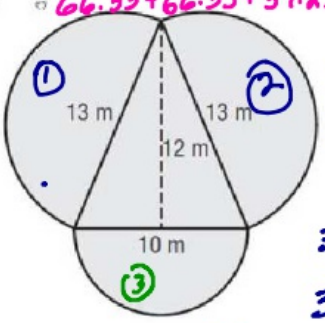
$\frac{1}{2}bh$ $b = 6$ $h = 7$

$\frac{1}{2}(6)(7) =$

$\frac{1}{2}(42) = 21$

21m^2

3



$66.33 + 66.33 + 39.25 + 60 = 231.91$ 231.9m^2

SEMI-CIRCLE ① $\frac{1}{2}$

πr^2 $d = 13$ so $r = 6.5$

$3.14(6.5^2) =$

$3.14(42.25) =$

$\frac{132.665}{2} = 66.33\text{m}^2$

SEMI-CIRCLE ③

$d = 10$ so $r = 5$

$3.14(5^2) =$

$3.14(25) =$

$\frac{78.5}{2} = 39.25$

TRIANGLE

$\frac{1}{2}bh$ $b = 10$ $h = 12$

$\frac{1}{2}(10)(12) = \frac{1}{2}(120) = 60\text{m}^2$