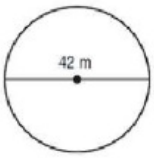
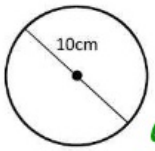
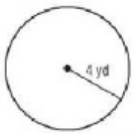
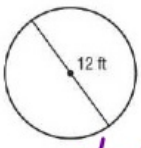
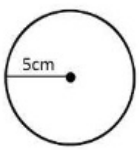
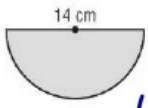
Name _____ Date _____ Per. _____ Number _____

M7 Measurement Test

1. If the radius is 4.5 mm, what is the diameter?  $r = 4.5$, $d = 2r \longrightarrow$ so $d = 9$mm	★ 9mm
2. If the diameter is 42m, what is the radius?  $d = 42$, $r = \frac{d}{2} \longrightarrow$ so $r = 21$m	21m
3. Find the circumference of the circle: $(C = \pi d)$  $C = 3.14(10) = 31.4$ $d = 10$	31.4cm
4. Find the circumference of the circle: $(C = \pi d)$  $C = 3.14(8) = 25.12$ $r = 4$ so $d = 8$	25.12 yd
5. Find the area of the circle: $(A = \pi r^2)$  $A = 3.14(6^2) = 3.14(36) = 113.04$ $d = 12$ so $r = 6$	113.04 ft^2
6. Find the area of the circle: $(A = \pi r^2)$  $A = 3.14(5^2) = 3.14(25) = 78.5$	78.5 cm^2

7. Find the area of the semi-circle. Round to the nearest tenth if necessary.



$A = \pi r^2 = 3.14(7^2) = 3.14(49) = 153.86$

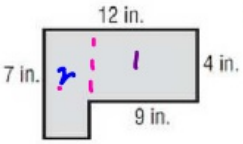
$d = 14$ so $r = 7$

FULL CIRCLE

FOR SEMI-CIRCLE DIVIDE BY 2 → $\frac{153.86}{2} = 76.93$

$76.9\ cm^2$

8. Find the area of the figure.



RECTANGLE-1 $L = 9, W = 4$ $9(4) = 36$

RECTANGLE-2 $L = 7, W = 3$ $7(3) = 21$

$36 + 21 = 57$

ALSO

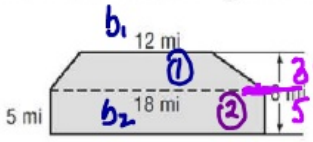
$12 \times 4 = 48$

$3 \times 3 = 9$

$57\ in^2$

57 SQ IN OR $57\ in^2$

9. Find the area of the figure. Round to the nearest tenth if necessary.



TRAPEZOID-1 $\frac{1}{2}h(b_1 + b_2)$

$\frac{1}{2}(3)(12+18)$

$\frac{1}{2}(3)(30)$

$\frac{1}{2}(90)$

$45\ mi^2$

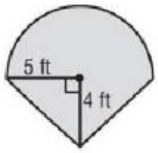
RECTANGLE-2

$5(18) = 90\ mi^2$

$90 + 45 = 135$

$135\ mi^2$

10. What is the area of the figure? Round to the nearest tenth if necessary. Use 3.14 for pi.



CIRCLE $r = 5$

$3.14(5^2)$

$3.14(25)$

$78.5\ ft^2$

FOR SEMI-CIRCLE DIVIDE BY 2 → $\frac{78.5}{2} = 39.25\ ft^2$

TRIANGLE $b = 10$ $h = 4$

$\frac{10(4)}{2} = \frac{40}{2} = 20\ ft^2$

$20.00 + 39.25 = 59.25$

$59.3\ ft^2$