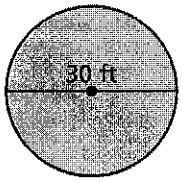
Name: SAMPLE Date: _____

# 7th Grade RED CHAPTER 8 Practice 1

**Find the radius of the circle.** (1pt each)

1) 


$\frac{30}{2} = 15$

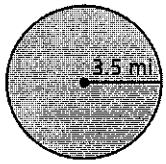
1) 15 ft

2) The diameter of DVD is 7.75 inches. What is the radius?


$2\overline{)7.75}$ = 3.875

2) 3.875 in

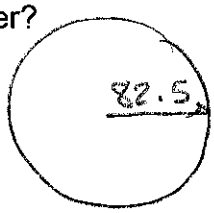
**Find the diameter of the circle.** (1pt each)

3) 


$3.5 \times 2 = 7$

3) 7 mi.

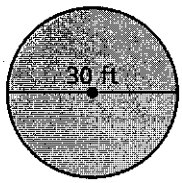
4) The radius of the Seattle Great Wheel (ferris wheel) is 82.5 meters. What is the diameter?




$82.5 \times 2 = 165.0$

4) 165 m

**Find the circumference of the circle.** (3pts each)

5) 

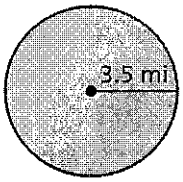

$C = \pi d$ or $2\pi r$

$3.14 \times 30 = 94.20$

5) 94.2 ft

**Find the circumference of the circle.** (3pts each)

6)




$C = 2\pi r$

$2 \cdot 3.5$

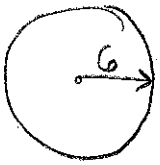
$3.14$

$\times \quad 7$

$21.98$

6) 21.98mi.

7) Your frisbee has a radius of 6 inches. What is the circumference?




$2\pi r$

$3.14$

$\times \quad 12$

$628$

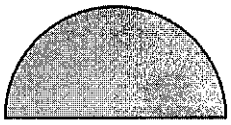
$+3140$

$37.68$

7) 37.68 in.

**Find the perimeter of the semicircle.** (3pts each)

8)




$C = \pi d$

$3.14$

$\times \quad 17$

$2198$

$+3140$

$53.38$

$26.69$

$2 \overline{)53.38}$

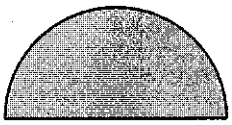
$26.69$

$+17.00$

$43.69$

8) 43.69m

9)




$C = \pi d$

$3.14$

$10.5$

$1570$

$0000$

$31400$

$32.970$

$16.485$

$2 \overline{)32.970}$

$16.485$

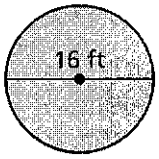
$+10.5$

$26.985$

9) 26.985 in.

**Find the AREA of the circle.** (3pts each)

10)

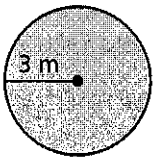



$a = \pi r^2$ $r = 8$

$$\begin{array}{r} 3.14 \\ \times\ 64 \\ \hline 1256. \\ 18840 \\ \hline 200.96 \end{array}$$

10) $200.96\ ft^2$

11)




$a = \pi r^2$ $r = 3$

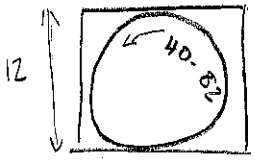
$$\begin{array}{r} 3.14 \\ \times\ 9 \\ \hline 28.26 \end{array}$$

11) $28.26 m^2$

12) Your bedroom is in the shape of a square that is 12 feet long on each side. Will a circular rug with a circumference of 40.82 feet fit into your room? YES / NO

If no, by how many feet is the rug too wide?

12) 1 ft




$C = \pi d$

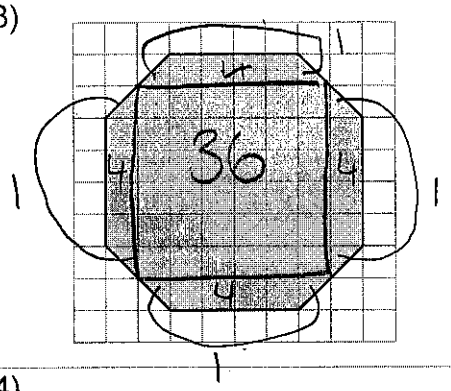
$40.82 = 3.14d$

$\div 3.14 \quad | \quad \div 3.14$

$$\begin{array}{r} 13 \\ 314 \overline{)4082} \\ -314 \downarrow \\ \hline 942 \\ -942 \\ \hline 0 \end{array}$$

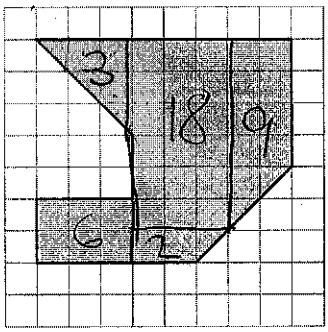
**Find the area of the figure.**

13)




13) 56 units$^2$

14)



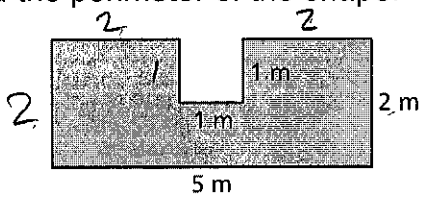

$0.5 \times 6 = 3$

$$\begin{array}{r} 18 \\ 9 \\ 6 \\ 2 \\ 3 \\ +\ 3 \\ \hline 41 \end{array}$$

14) 41 units$^2$

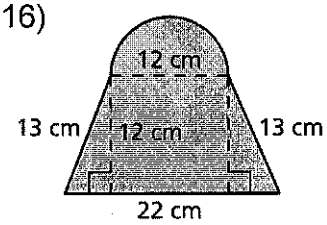
Find the perimeter of the shape.

15)




15) 16 m

16)




$C = \frac{\pi d}{2} = 3.14 \times 6$

$$\begin{array}{r} 18.84 \\ 13.00 \\ 13.00 \\ +\ 22.00 \\ \hline 66.84 \end{array}$$

16) 66.84 cm