Kov
HOMEWORK: Circumference and Area of Circles (Unit 8 - Math 7)
• Remember $\pi \approx 3.14$ or $\pi \approx \frac{22}{7}$
,
 Write formulas and solve. Show work! Draw pictures.
d=3,5in
1. A coffee cup has a diameter of 3 ½ inches. What is its circumference?
C= T. d. (10.99 in)
2. A circle has a diameter of $4\frac{1}{10}$ inches. What is the circumference? Round your one way to the propert to the
answer to the nearest tenth.
C= TTd (13.50ain)
3,14.4.3in
3. What is the area of the circle if its radius is 2 cm? $r = 2 cm$
A=TT-r.C (12.56cm ²)
4. What is the area of a circle that has a diameter of 6 cm? $d = 6 \text{ cm}$
A-TTPY
3,14.3.3 (28.26cm²)
5. If the area of a circle is 200.96 m ² , then what is its diameter?
A=TTr2 r2=164 or try
$A = TTr^2$ $200.94 = 3.14.r^2$ $8m$ $r^2 = 64$ or try $r = 8$ different $d = 16cm$ padii
3.14 3.14 (= 16cm) adii
6. If the area of a circle is approximately 254.34 in , how long is the radius?
a) 10 in (b) 9 in (c) 20 in d) 3 in
3.14.10.10 3.14.9.9 3.14.20.20 3.14.3.3
314in2 (25434in3 1256in2 28.26in2
7. If a wheel has a diameter of 28 inches, how much distance would you cover if the whe
rolled completely 8 times? (Sketch a picture)
(28in) (703.36 in) = 3.14.28
= 87.92
$d=28in$ $\rightarrow x$ 8

r=14in