

7-4 Circumference of Circles

$$\pi = \text{Pi} \approx 3.14 \text{ or } \frac{22}{7}$$

$$C = \pi d$$

circumference = $\xrightarrow{\text{Pi}}$ 3.14 \times Diameter



$$C = \pi d$$

$$C = 3.14 \times 8$$

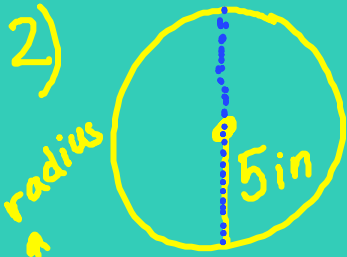
$$C = 25.12$$

$$C = 25.1 \text{ in}$$

ALWAYS WRITE FORMULA 1st!

$$\begin{array}{r} 3.14 \\ 2 \overline{) 24.82} \\ \underline{4} \\ 8 \\ \underline{8} \\ 0 \\ \underline{0} \\ 2 \\ \underline{2} \\ 0 \end{array}$$

25.12



$$C = \pi d$$

$$C = 3.14 \times 10$$

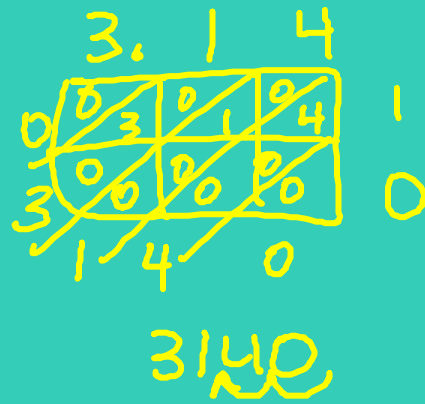
$$C = 31.4 \text{ in}$$

$r = 5$ → change to d

$$d = 2r$$

$$d = 2(5)$$

$$d = 10$$



$$3) d = 1.75 \text{ ft}$$

$$C = \pi d$$

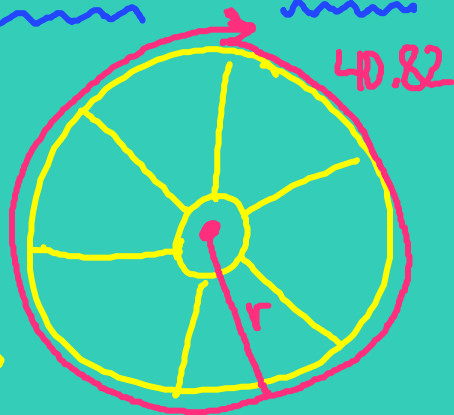
$$C = 3.14 \times 1.75$$

$$C = 5.495$$

$$C = 5.5 \text{ ft}$$

$$\begin{array}{r} 3.14 \\ \times 1.75 \\ \hline 1570 \\ 2198 \\ 3140 \\ \hline 54950 \end{array}$$

4) A wheel has a circumference of 40.82 cm.
Find the radius.



$$C = \pi d$$

$$\begin{array}{r} 40.82 = 3.14 d \\ \underline{3.14} \quad \underline{3.14} \end{array}$$

$$13 = d$$

*need r so \div by 2

$$\frac{13}{2} = \boxed{6.5 \text{ or } 6\frac{1}{2} \text{ cm}}$$

$$\begin{array}{r} .0013 \\ 3.14 \overline{) 40.82} \\ \underline{-314} \\ 942 \\ \underline{-942} \\ 0 \end{array}$$