


Name:

Date:

Block:

Math 7 Assignment Page 278

3) Estimate then calculate circumference

a)  $2.1 \text{ km} = d$
 $\pi = 3.14$

Sol'n $\text{Circ} = \pi \cdot d$
 $= 3.14 \cdot 2.1 \text{ km}$
 $= 6.594 \text{ km}$

est $\text{Circ} = \pi \cdot d$
 $\approx 3.2 \text{ km}$
 $\approx 6 \text{ km}$

5) Given: - circular walking path
- diameter = $3 \text{ km} = d$

Sol'n $\text{Circ} = \pi \cdot d$
 $= 3.14 \cdot 3 \text{ km}$
 $= 9.42 \text{ km}$

She walks 9 km to the nearest kilometer

Name
Date
Block

Math 7 Assignment Page 285

4) Estimate then calculate area



Sol'n

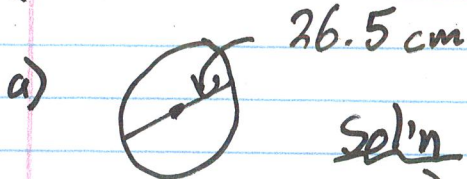
$$\begin{aligned} \text{AofC} &= \pi \cdot r^2 \\ &= 3.14 \cdot 32 \text{ mm} \cdot 32 \text{ mm} \\ &= 3215.36 \text{ mm}^2 \end{aligned}$$

Est

$$\begin{aligned} \text{AofC} &= \pi \cdot r^2 \\ &\approx 3 \cdot 30 \text{ mm} \cdot 30 \text{ mm} \\ &\approx 3 \cdot 1000 \text{ mm}^2 \\ &\approx 3000 \text{ mm}^2 \end{aligned}$$

Area of circle = 3215.36 mm^2

b) Find A of C



Sol'n

1) $r = \frac{d}{2}$ or $(r = \frac{1}{2}d, r = d \div 2)$

2) $\text{AofC} = \pi \cdot r^2$

$$\begin{aligned} 1) r &= \frac{d}{2} \\ &= \frac{26.5 \text{ cm}}{2} \\ &= 13.25 \text{ cm} \end{aligned}$$

$$\begin{aligned} 2) \text{AofC} &= \pi \cdot r^2 \\ &= 3.14 \cdot 13.25 \text{ cm} \cdot 13.25 \text{ cm} \\ &\approx 551.266 \text{ cm}^2 \end{aligned}$$

Area of Circle $\approx 551.266 \text{ cm}^2$