Name:
Date:
Block:

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3) Estimate then calculate circumference

a) 

2.1 km = d

$\pi = 3.14$

Soln $Circ = \pi \cdot d$

$= 3.14 \cdot 2.1 \text{ km}$

$= 6.594 \text{ km}$

est $Circ = \pi \cdot d$

$\approx 3 \cdot 2 \text{ km}$

$\approx 6 \text{ km}$

5) Given: - circular walking path
- diameter = 3 km = d

Soln $Circ = \pi \cdot d$

$= 3.14 \cdot 3 \text{ km}$

$= 9.42 \text{ km}$

She walks 9 km to the nearest kilometer

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4) Estimate then calculate area

a) 

Soln

$A of C = \pi \cdot r^2$

$= 3.14 \cdot 32mm \cdot 32mm$

$= 3215.36 mm^2$

Est

$A of C = \pi \cdot r^2$

$\approx 3 \cdot 30_{mm} \cdot 30_{mm}$

$\approx 3 \cdot 1000 mm^2$

$\approx 3000 mm^2$

Area of circle $= 3215.36 mm^2$

8) Find A of C

a) 

Soln

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

2) $A of C = \pi \cdot r^2$

1) $r = \frac{d}{2}$

$= \frac{26.5cm}{2}$

$= 13.25cm$

2) $A of C = \pi \cdot r^2$

$= 3.14 \cdot 13.25cm \cdot 13.25cm$

$\approx 551.266 cm^2$

Area of Circle $\approx 551.266 cm^2$

Hilroy