

Warm-Up Grade 7



Assessment Review

Cir

- 1) Find the radius if the circumference is 57.776 cm
show work

$r = ?$
↓
find 'd'

$$d = \frac{C}{\pi} = \frac{57.776 \text{ cm}}{3.14}$$

$$d = 18.4 \text{ cm}$$

$$\div 2 \quad \div 2$$

$r = 9.2 \text{ cm}$

- 2) Calculate the circumference of each circle.

given $r = 21 \text{ m}$
 $C = ?$

$$C = 2\pi r$$

$$C = 2(3.14)(21 \text{ m})$$

$$= 131.88 \text{ m}$$

solutions

LESSON 4.2: Circumference of a Circle

1. A circle has diameter 10.5 cm.
Calculate the circumference of the circle to the nearest millimetre.
2. A circle has radius 4.3 mm.
Calculate the circumference of the circle to the nearest millimetre.
3. A circle has circumference 12.6 m.
Calculate the diameter of the circle to the nearest centimetre.
4. Describe two different ways to find the circumference of a circle with radius 5 cm

$$C = \pi d$$

$$= 3.14 \times 10.5 \text{ cm}$$

$$= 32.97 \text{ cm}$$

$$C = 2\pi r$$

$$= 2 \times 3.14 \times 4.3$$

$$= 27.0 \text{ mm}$$

$$3) \quad C = 12.6 \text{ m}$$

$$d = ?$$

$$d = \frac{C}{2\pi}$$

$$= \frac{12.6 \text{ m}}{2 \times 3.14}$$

$$= \frac{12.6 \text{ m}}{6.28}$$

$$d = 2.0 \text{ m}$$

$$4) \quad r = 5$$

$$C = 2 \times \pi \times r$$

$$= 2 \times 3.14 \times 5 \text{ cm}$$

$$= 31.4 \text{ cm}$$

OR

$$C = \pi d$$

Since $r = 5 \Rightarrow d = 10 \text{ cm}$

$$C = 3.14 \times 10 \text{ cm}$$

$$= 31.4 \text{ cm}$$

Class / Homework

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Quiz Tomorrow