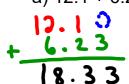
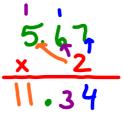
Warm-Up Grade 7



Assessment Review 7

1) Find the answer and show work



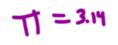


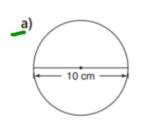
2) Calculate the circumference of each circle.

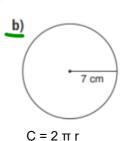
a)
$$r = 4.2 \text{ m}$$

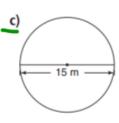


Calculate the circumference of each circle. Give the answers to two decimal places.









 $C = \pi d$

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

= 31.4 cm

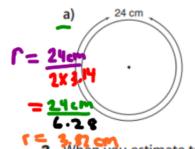
- = 2 x 3.14 x 7cm
- = 43.96 cm
- $C = \pi d$

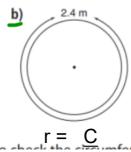
 $= 3.14 \times 15 cm$

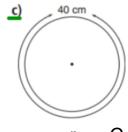
= 47.25 cm

2 Calculate the diameter and radius of each circle. Give the answers to two decimal places.









C <u>r = C</u> 2π

r = 2.4 m2 x 3.14

r = 40cm2 x 3.14

r = 2.4 m

r = 40cm

6.28

6.28

2π

r = 2.4 m6.28

r = 40 cm6.28

r = 0.38 m

r = 6.37 cm

or

38 cm

4. A circular garden has diameter 2.4 m.



- a) The garden is to be enclosed with plastic edging. How much edging is needed?
- b) The edging costs \$4.53/m. What is the cost to edge the garden?

$$C = \pi d$$
= 3.14 x 2.4 m
= 75.36 m

75.36m of edging is needed

b)
$$75.36$$
m x $$4.53$ /m = $$341.38$
The cost of the edge is $$341.38$.

a) $C = \pi d$ d= 5 so if you **5.** a) Suppose you double the diameter of a circle. double it d = 10 $= 3.14 \times 5 \text{ m}$ What happens to the circumference? $= 15.7 \, \mathrm{m}$ b) Suppose you triple the diameter of a circle. if you double diameter What happens to the circumference? then circumference $C = \pi d$ Show your work. doubles. Make sense = 3.14 x 10 msince if you muliply one side by 2 then the = 31.4 mother side doubles as b) If you triple diameter then the circumference will triple. well to keep equality/

What is the radius of the tabletop in centimetres?

2π

$$r = 4.5 \text{ m}$$

2 x 3.14

The radius is 72 cm.

$$r = 4.5 \text{ m}$$
 6.28

r = 0.72 m

or

72 cm

Calculating Circumference of a Circle

$$C = \pi d$$
 $C = 2\pi r$

When we know the radius or diameter of a circle, we can use one of the formulas above to find the circumference of a circle.

Circumference is a length, so its units are units of length such as m, cm, or mm.

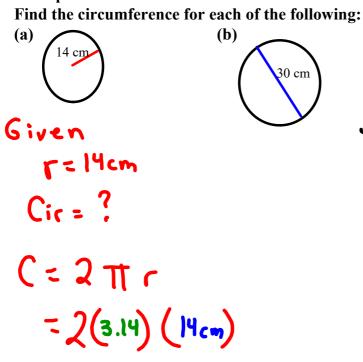
Remember: 1 cm = 10 mm1 m = 100 cm

Calculate the circumference of a toonie. Use your calculators BUT show work.



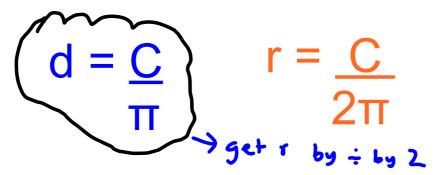
Find the circumference of a circle.

Examples:



= 87.92 cm

Calculating Diameter or Radius of a Circle



When we know the circumference of a circle, we can use one of the formulas above to find the diameter or radius of a circle.

> Remember 1 km = 1000 m 1 km = 100 000 cm

The circumference of each circle is given.

Calculate the diameter and radius. Give the answers to one decimal place.

a)
$$d = \frac{3.18}{r}$$

b)
$$d = \frac{9.23 \text{ cm}}{4.61 \text{ cm}}$$

b)
$$d = \frac{9.23 \text{ cm}}{4.61 \text{ cm}}$$
 c) $d = \frac{12.10 \text{ mm}}{6.05 \text{ mm}}$

r38 mm ≈



$$= \frac{29an}{3.14}$$

Class / Homework Quiz TUESDAY

Quiz TUESDAY
Finish Yesterday first
Page 136 #1, #2, #4, #5, #6
Then

Lesson 4.2: Circumterence of a Circle

- 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. See this and different mayes to find the circumference of a circle with radius 5 cm

2. Cir =
$$24cm_1 d = ?$$

Cir = $\pi \times d$
 $24 = 3.14 \times d$
 $24 = 3.14 \times d$
 $3.14 = 0$