Turn in your flashback Friday #4
*please write your fractional score at the top before turning it in.

Get your groups daily hw checks.

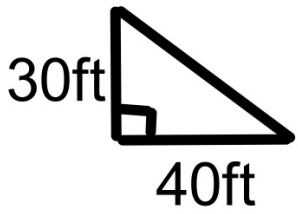
DHW check

Warm - Up

1. Simplify: $0.\overline{6} \times 2\ ^1/_2$

perimeter

2. Ivy wants to put a fence around her yard. Her yard is shaped like the right triangle shown below. How much fencing will Ivy need?



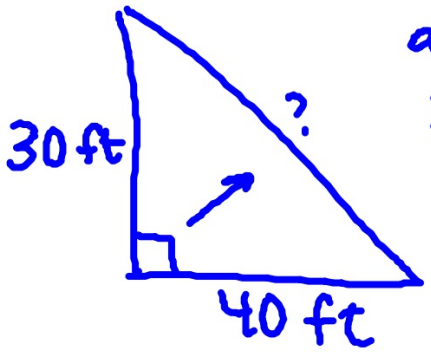
3. Which number is a rational number?

a) $\sqrt{0.4}$ b) $\sqrt{^5/_9}$ c) $\sqrt{^1/_4}$ d) $\sqrt{0.05}$

4) Two times a number plus one equals four times the same number minus five. What is the number?

$\frac{6}{9} \times 2\frac{1}{2}$

$\frac{\cancel{6}^{3}}{\cancel{9}_{3}} \cdot \frac{5}{\cancel{2}_{1}} = \frac{5}{3}$ $\Rightarrow$ or $\frac{6}{9} \cdot \frac{5}{2} = \frac{30}{18} \overset{\div 6}{\underset{\div 6}{}} \frac{5}{3}$



$a^2 + b^2 = c^2$

$30^2 + 40^2 = c^2$

$900 + 1600 = c^2$

$2500 = c^2$

$\sqrt{2500} = \sqrt{c^2}$

$50 = c$

$P = a + b + c$

$P = 30 + 40 + 5$

$P = 120\text{ ft}$

3) $\sqrt{.4}$ $\sqrt{5/9}$ $\sqrt{\frac{1}{4}}$ ~~$\sqrt{.05}$~~

$\sqrt{\frac{4}{10}}$ $\frac{\sqrt{5}}{\sqrt{9}}$ $\frac{\sqrt{1}}{\sqrt{4}}$

~~$\frac{\sqrt{4}}{\sqrt{10}}$~~ ~~$\frac{\sqrt{5}}{3}$~~ C) $\frac{1}{2}$

4) $2x+1 = 4x-5$

$-2x \quad -2x$

$1 = 2x-5$

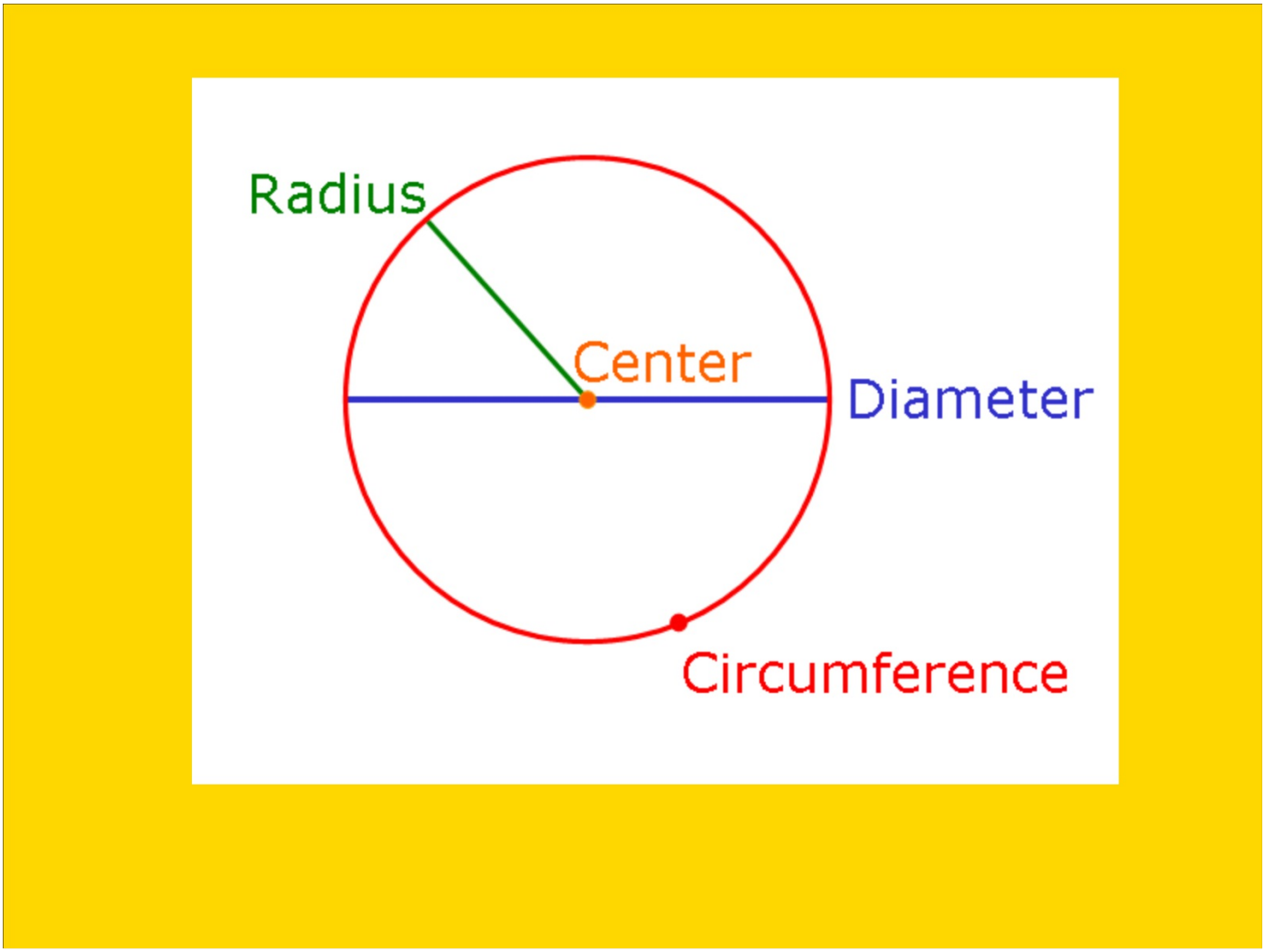
$+5 \quad +5$

$\frac{6}{2} = \frac{2x}{2}$

$3 = x$

Review of Circles
Area & Circumference

I can prepare for my upcoming unit on volume of cylinders, cones, and spheres by reviewing the formulas for circumference and area of circles.


Radius
Center
Diameter
Circumference

Area of Circles

The area of a circle is equal to pi (π);
(3.14 or $\frac{22}{7}$) times the square of the radius (r^2)
of the circle.

FORMULA: $A = \pi r^2$ (π x r x r)

The radius is half of the diameter

*To square a number (r^2)- multiply that number times itself.... (not times 2)

Circumference: distance ***around*** a circle.
(This is similar to the perimeter of polygons)

2 formulas:

*If given the radius of the circle:

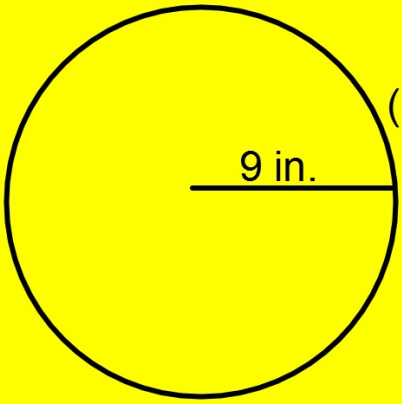
$$C = 2\pi r$$

*If given the diameter of the circle:

$$C = \pi d$$

Find the area and circumference of each circle:

Ex.1)



(Use 3.14 for π)

$A = \pi r^2$

$A = (3.14)(9)^2$

$A = (3.14)(81)$

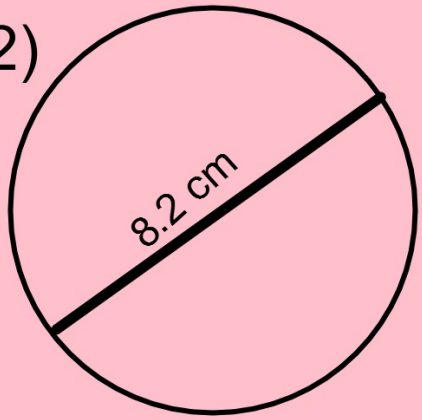
$A = 254.34 \text{ in}^2$

$C = \pi d \quad r = 9, d = 18$

$C = (3.14)(18)$

$C = 56.52 \text{ in.}$

Ex.2)



(Leave your answer in terms of π)...
which means you will have π in your answer

$A = \pi r^2$ $r = 4.1$

$A = \pi(4.1)^2$

$A = 16.81\pi \text{ cm}^2$

$C = \pi d$ $d = 8.2$

$C = \pi(8.2)$

$C = 8.2\pi \text{ cm}$