Math 8 Review Sheet #1   Name _____
Due: Tuesday, December 6th 2016

Each section has a released question from the NYS Math 8 test. The questions surrounding it help you think about the various skills needed to solve the problem. Answer all questions. Show ALL Work.

3 feet = _____ inches   72 inches = _____ feet   42 inches = _____ feet
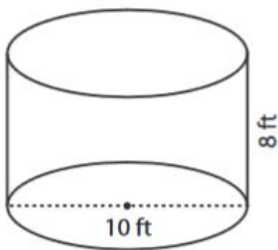
4.5 feet = _____ inches   5 yards = _____ feet   72 inches = _____ yards

3 feet + 15 inches = _____ inches   **4.5 feet – 6 inches = _____ inches**

Find the Volume of the below cylinder. Round to the nearest cubic foot. **Remember:** $V = \pi r^2 h$	Elias filled the cylinder to the left with sand to make a sandbox. The sand came up 18 inches from the top of the cylinder. **What is the height of the sand in the cylinder?**

(cylinder labeled 8 ft height and 10 ft diameter)

Use this height and the same diameter to find the volume of the sand in the cylinder to the nearest cubic foot.

NYS Test Question

Show ALL Necessary Work HERE. Even if some of the work is above.

An above-ground swimming pool in the shape of a cylinder has a diameter of 18 feet and a height of 4.5 feet. If the pool is filled with water to 6 inches from the top of the pool, what is the volume, to the nearest cubic foot, of the water in the pool?

A) 226

B) 452

C) 1,018

D) 4,072

Math 8 Review Sheet #1   Name _____
Due: Tuesday, December 6ᵗʰ 2016

Each section has a released question from the NYS Math 8 test. The questions surrounding it help you think about the various skills needed to solve the problem. Answer all questions. Show ALL Work.

Simplify the following

$3(2x+5) =$ $-3(5x-2y-7z) =$ $\dfrac{1}{2}(-6a+10b) =$

What is the above property called? _____

Simplify the following

$$2a+5b-3a+4b$$ $$-4(x-2y)-5x+10y$$

Solve the following equations for x. Write how many solutions each equation has.

One Solution	No Solutions	Infinitely Many Solutions

$3x+5 = 3x+2$ _____

$2(3x+4) = 32$ _____

$2x+5x+4 = -2+7x+6$ _____

NYS Test Question

Show ALL Necessary Work HERE. Even if some of the work is above

Determine the number of solutions that exist to the equation below.

$$8(j-4) = 2(4j-16)$$