## October 16<sup>th</sup>

If four times the smaller of two numbers is three times the larger and the difference between them is 18.

What is the larger number?



Smaller number = x

Larger number = y

$$4x = 3y$$

$$y - x = 18$$

Therefore

$$4y - 4x = 72$$

Hence 
$$y = 72$$

and x = 54