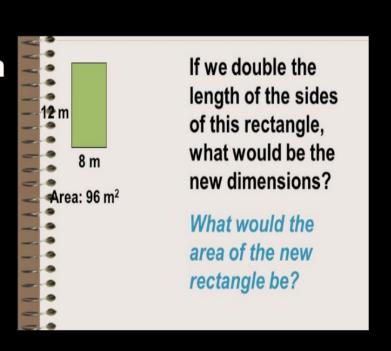
Graphing: Proportions

Today's Objectives:

- Solve Proportion Problems
 - From an equation
 - From a data table
- Practice on a computer simulation



· Proportions (double, +-', ple, halm)

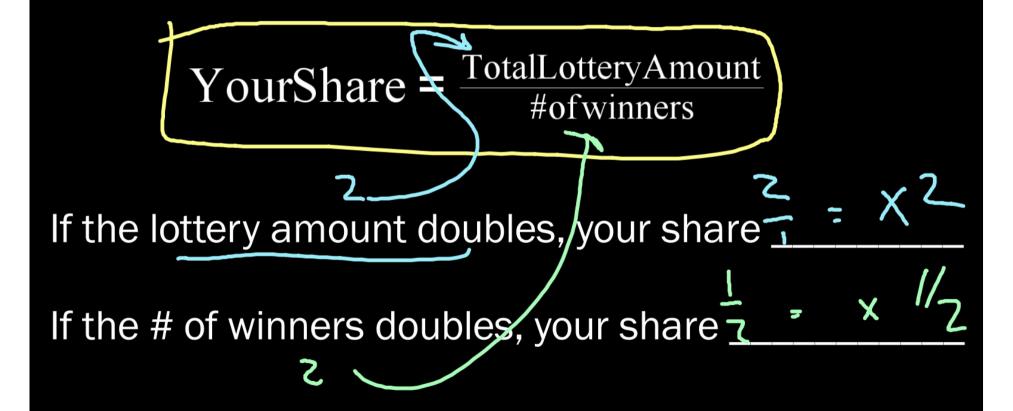
- 1. Figure out "what's the multiplier?"
- 2. Plug the multiplier into the equation
- 3. Keep the other variables and numbers as 1

If your pay rate is doubled, your paycheck will 2.1 = x

If your pay rate is quadrupled, your paycheck will ______

If your pay rate is halved, your paycheck will _______

- 1. Figure out "what's the multiplier?"
- 2. Plug the multiplier into the equation
- 3. Keep the other variables as 1

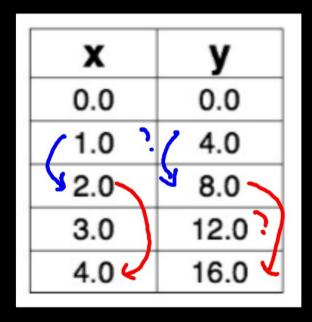


$y = x^2$

If you...

- double x, y will ... 2 × 4
- triple x, y will ... 3 = × 9
- halve x, y will ... $\left(\frac{1}{7}\right)^2 = x \frac{1}{4}$

Proportions - From a Data Table



When you double X, Y will.....

X	у
0.0	0.0
/ 1.0	(1.0
2.0	4.0
3.0	9.0
4.0	16.0

When you double X, Y will.....

WWDB?

- 1. www.physicsclassroom.com, Concept Builders
- 2. Relationships and Graphs, Which One Doesn't Beld
- 3. Start Interactive
- 4. Leave up your trophies! :)

Volume and Pressure				
(pa) 40	Type of graph:			
40 8 4 2 1 0.8	Substituted Equation: _			
2	Sketch of graph:			
0.8		•	When V is doubled, P will	
0.5		•	When V is tripled, P will	
0.4		•	When V is halved, P will	

Responding
11Ax.5

Manipulated Independent X-Axis