Calendar Review

Prob & Stats - AUG/Sept 2021							
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
12	9	10	11 Red First Day of School	12 Intro & Welcome Overview of class	13 Red	14	
15	16 Welcome to STATS! Introduction/Syllabus Sample Quiz	17 Red	18	19 Red	20 ACT Practice WS HW 2: Create Intro Video	21	
22	23 Red	24 HW 3: Paulos Reading w/ 8 questions	25 Red	26 Guest Speaker? HW 4: ACT Practice WS w/ stats	27 Red	28	
29	30 QUIZ 2 Intro Concepts	31 Red Virtual Open House	1 SEPTEMBER Summary of Stats Intro concepts & terms	2 Red	3 HW 5: Test Review WS	4	
5	6 Labor Day NO School	7 Red	8 TEST #1 Review Day HW 5: Review WS DUE	9 Red	10 Frield Trip to AMPED	11	
12	13 Red	14 TEST #1 All covered topics HW Ck: ALL HW DUE	15 Red	16 TEST #1 All covered topics HW Ck: ALL HW DUE	17 Red	18	

ACT Practice Take out WS from last class

Spend 5 minutes working on problems
Circle 1 or 2 problems that are most difficult or confusing
Be ready to share and discuss your answers and work

Understanding Percentages

HOW DO YOU FIND THE GIVEN PERCENT OF ANY NUMBER?

What are percents?

- Percent means "per 100" or "out of one-hundred"
- Any number (including decimals) can be converted into an equivalent percent by <u>Multiplying the number</u> by 100
- You can find any percent of a given quantity by using a simple formula, that results from a P...PROPORTIONS

What are proportions?

A proportion is an equation that shows one ratio equal to another, usually displayed as one fraction set equal to another fraction

EX:
$$\frac{1}{2} = \frac{3}{6}$$
 $\frac{5}{20} = \frac{x}{80}$ $\frac{a}{b} = \frac{c}{d}$

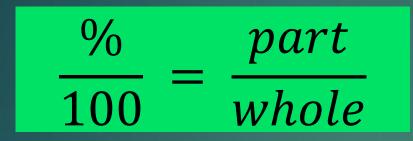
We commonly use proportions to find equivalent fractions or to solve percent problems Using a **general proportion** to solve percentage problems

Different Forms of the	percent _	amount	
Percent Proportion	100 -	base	

$$\frac{P}{100} = \frac{"is"}{"of"} = \frac{\%}{100} = \frac{part}{whole}$$

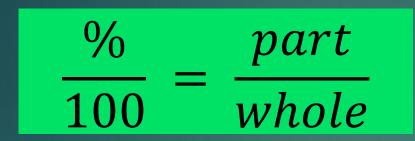
$$\frac{percent \ you \ want}{out \ of \ 100} = \frac{resulting \ part}{of \ given \ quantity}$$

What is 42.6% of 100?



Ans:
$$x = 42.6$$

What is 27% of 64?

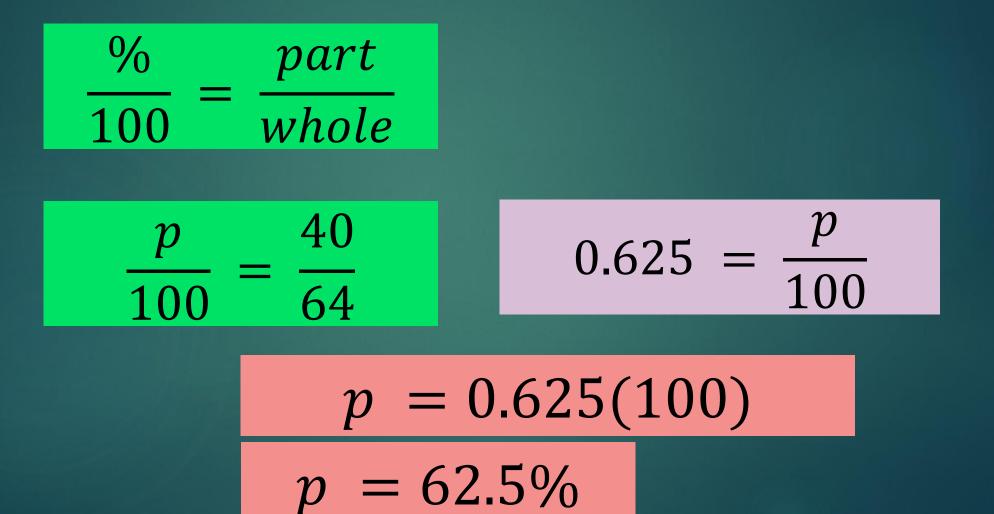


$$\frac{27}{100} = \frac{x}{64} \qquad 0.27 = \frac{x}{64}$$

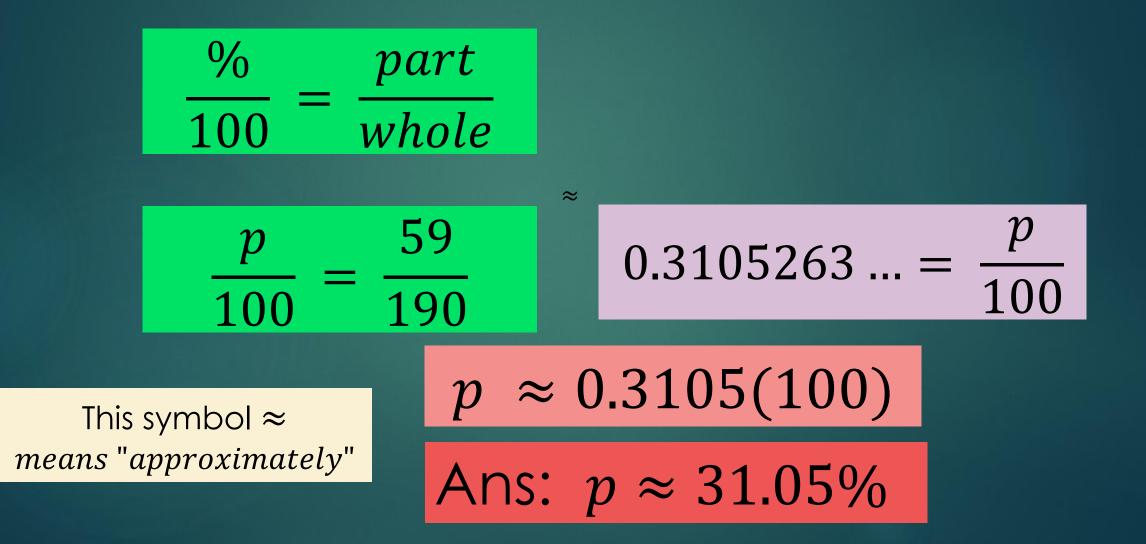
$$x = 0.27(64)$$

Ans: *x* = **17.28**

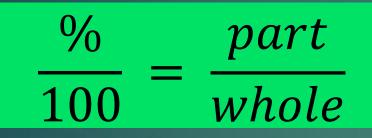
40 is what percent of 64?



59 is what percent of 190?



49 is 55 percent of what number?



$$\frac{55}{100} = \frac{49}{n}$$

$$55n = 4900$$

$$n \approx \frac{4900}{55}$$

This symbol ≈ means "approximately"

Ans: *n* ≈ 89.091

Practice Time

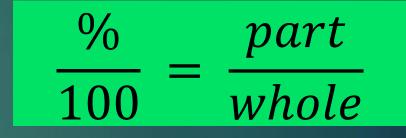
Practice as many or few of the 100 WS problems, knowing that you are responsible to be able to solve any of these percentage problems on the upcoming test!

Sept 14, 2021 TEST Review Day!

- Please take out your HW #5, Test Review, make sure that your name is on it, and PASS it to the FRONT of each ROW.
- Begin working on the ACT Practice problems until the WARM-UP is posted
- Complete the Warm- UP
- Video TIME On-line TEXT
- Questions regarding the test review & test
- TEST 1: Thursday, Sept 16 (next class!)

What is the percent increase or decrease?

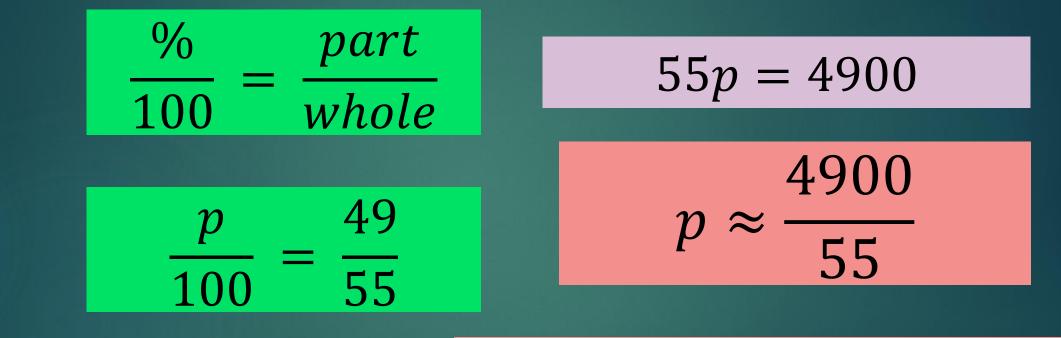
1) From 36 to 18



2) From 55 to 49

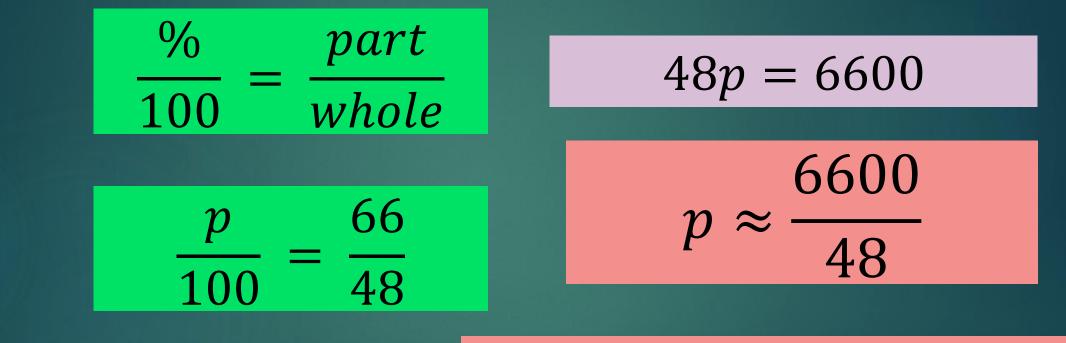
2) From 48 to 66

What is the percent increase or decrease?

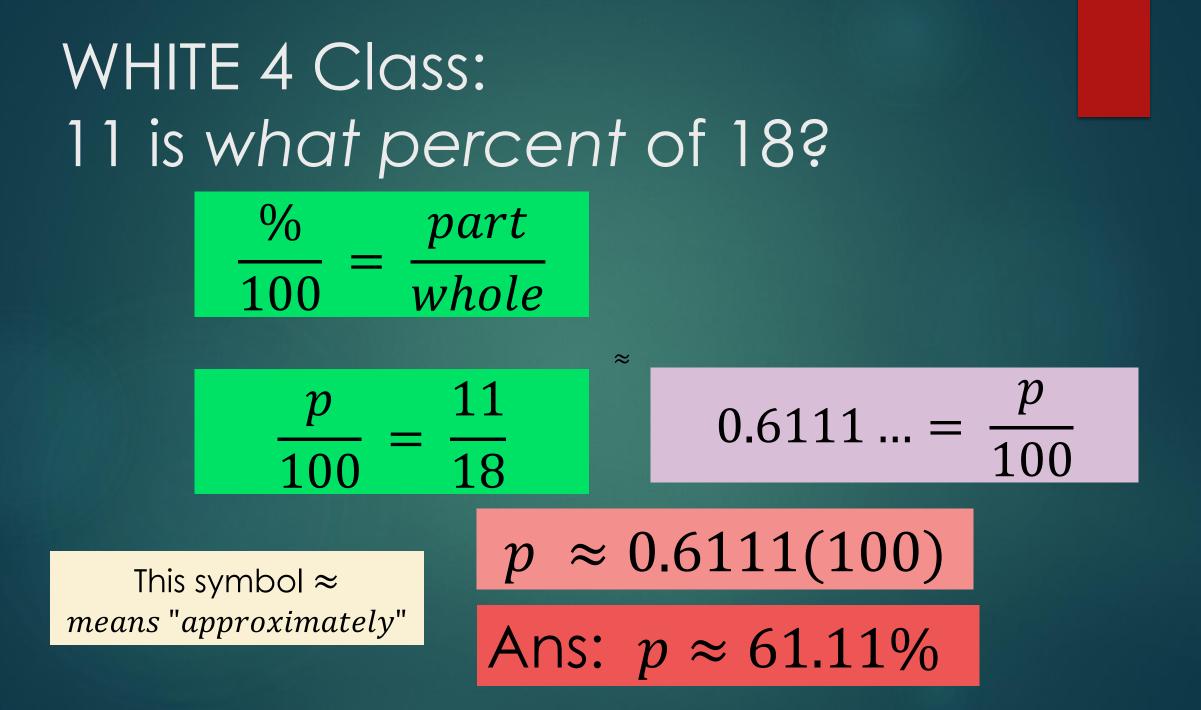


This symbol ≈ means "approximately" Ans: $n \approx 89.091$ Decrease of $\approx 10.9\%$

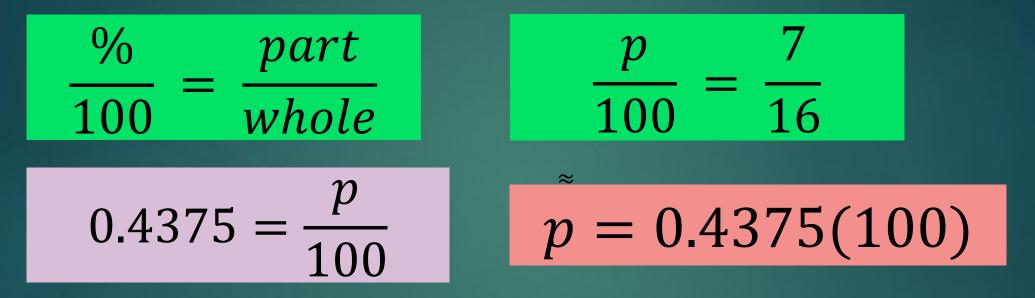
What is the percent increase or decrease?



This symbol ≈ means "approximately" Ans: n = 137.5%Increase of 37.5%



WHITE 3 HW: (3 students absent) 7 is what percent of 16?



Ans: p = 43.75% of W3 students advocated for their own learning

Percentiles: 2 DEFINITIONS OF PERCENTILE

(FROM ON-LINE TEXTBOOK) There is no universally accepted, single definition of a percentile.

<u>Definition 1</u>: Using the 65th percentile as an example, the 65th percentile can be defined as the lowest score that is greater than 65% of the scores.

<u>Definition 2</u>: The 65th percentile can also be defined as the smallest score **that is greater than or equal to 65%** of the scores.

"Unfortunately, these two definitions can lead to dramatically different results, especially when there is relatively little data. Moreover, neither of these definitions is explicit about how to handle rounding. How to succeed in Mr. L's class What is an advocate? Someone who supports you and tries to help you succeed What is an adversary?

How to succeed in Mr. L's class

I am here to be your ADVOCATE, please don't treat me as an adversary!

When you take the time, and make the effort, MATH can help you succeed, so try to avoid thinking of math as your adversary as well.

Be your own **ADVOCATE!**