Calendar Review

Prob & Stats - HW AUG/Sept 2022							
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
7	8	9	10 Red	11 Welcome to STATS!	12 Red	13	
14	15 Introduction WS GC: Topics for Math?	16 Red	17 HW 2: Order of Operations WS HW 3: Intro Video	18 Red	19	20	
21	22 Red	23 HW 4: Paulos Reading w/ 8 questions Practice Quiz	24 Red	25 QUIZ 1 Intro Stats Concepts HW 5: ACT Practice	26 Red	27	
28	29 Reading Statistics HW 6: ACT Practice Extra Credit	30 Red Open House	31 HW 7: Review WS	1 Red SEPTEMBER Crimson Hour Sched	2	3	
4	5 Labor Day NO School	6 Red	7	8 Red	9 Test #1 review Review Day HW 7: Review WS DUE	10	
11	12 Red	13 Test #1 All covered Topics HW Ck: ALL HW Due!	14 Red	15 TBD	16 Red	17	

Warm-UP & 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
- What is a proportion? How do you solve for the percent of a number?

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

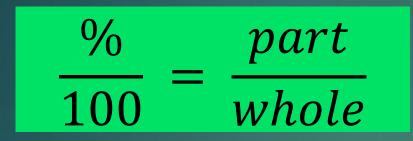
We commonly use proportions to find equivalent fractions or to solve percent problems Using a **general proportion** to solve percentage problems

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

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

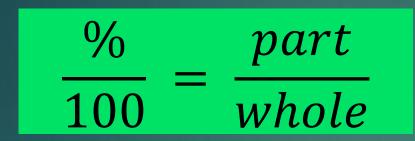
$$\frac{percent \ you \ want}{out \ of \ 100} = \frac{resulting \ part}{of \ given \ quantity}$$

What is 42.6% of 100?



Ans:
$$x = 42.6$$

What is 27% of 64?

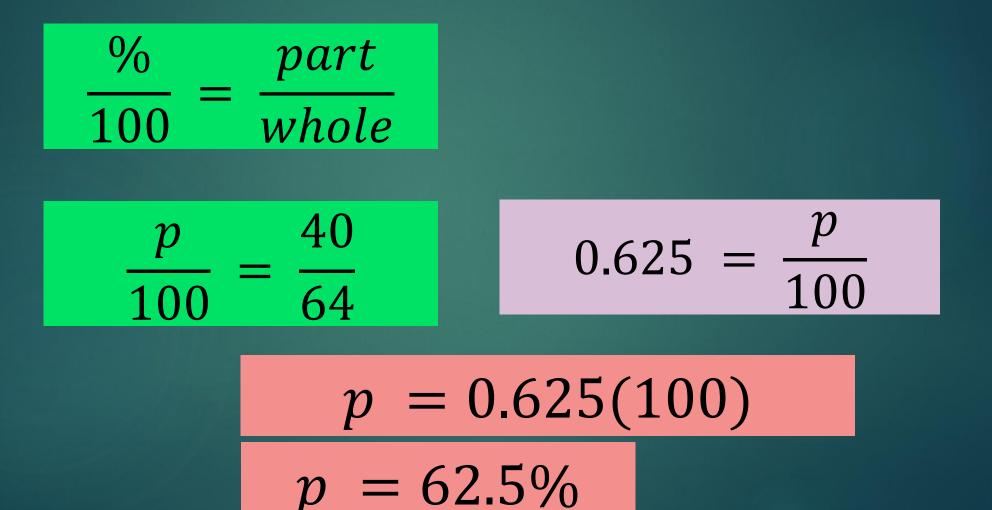


$$\frac{27}{100} = \frac{x}{64} \qquad 0.27 = \frac{x}{64}$$

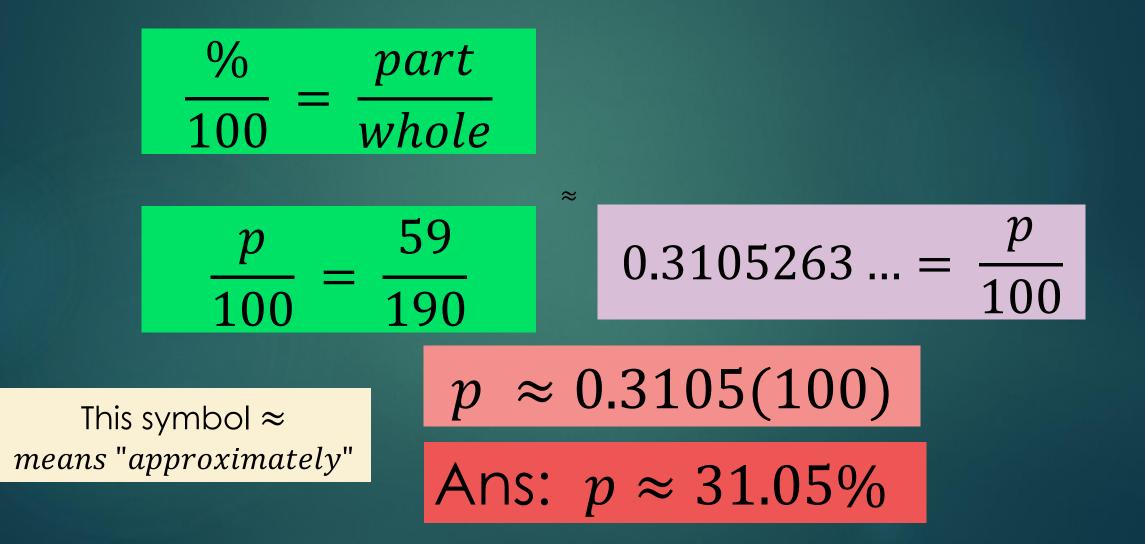
$$x = 0.27(64)$$

Ans: *x* = **17.28**

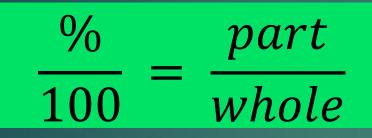
40 is what percent of 64?



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!