Prob & Stats - HW AUG/Sept 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
7	8	9	10 Red	11 Welcome to STATS! Introduction/Syllabus **HW 1**: ACT Practice	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 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	10
11	12 **Labor Day** NO School	13 Red	14 **Test #1** All covered Topics **HW Ck**: ALL HW Due!	15 Red	16	17

Warm- UP

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*?

  A rival; Someone who works against you and gets in the way

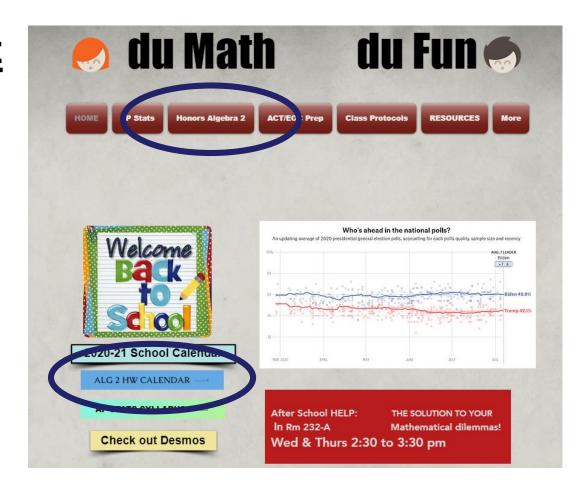- What is math?

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** BEST advocate! Ask for help when you need it.

Course Website

Points of Interest

➤ Monthly Calendar

➤ Notes, handouts, links
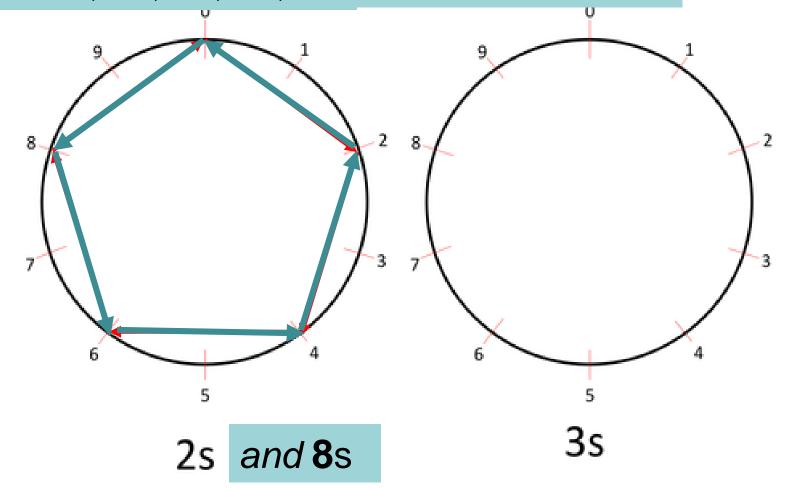
➤ ACT/EOC Prep

➤ Resources

WHAT is mathematics?

- A way of counting
- Recognizing and measuring shapes
- Looking at and organizing data
- It is a language (with it's own symbols and notations!)
- The application of logic
- A method for finding a making sense of patterns

Math is Pattern Recognition
Do you know your multiples?

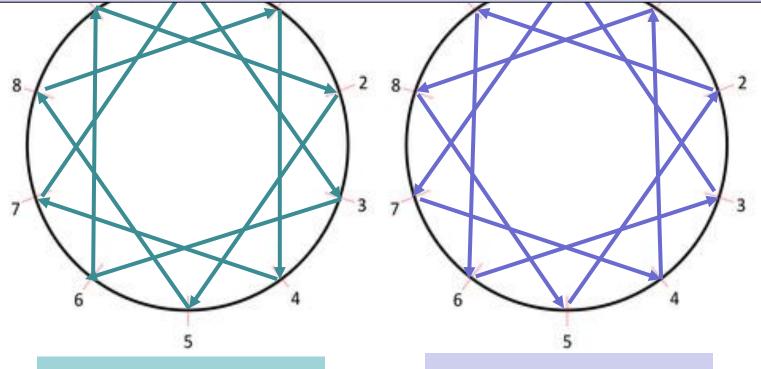**8**s: 8, 16, 24, 32, 40 , 48, 56, 64, 72, 80

2s *and* **8**s

3s

Math is Pattern Recognition
Do you know your multiples?

3s: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30

70 , 63, 56, 49, 42, 35, 28, 21,14, 7 ← **7**s

Multiples for **3**s

Multiples for **7**s

Rules for Order of Operations

- P.E.M.D.A.S.
- ~~Parentheses~~
- ~~Exponents~~
- ~~Multiplication~~
- ~~Division~~
- ~~Addition~~
- ~~Subtraction~~

G.E.M.A.

- **G**rouping symbols
  $(x-2), \sqrt{x-2}, |x-2|$

- **E**xponents

  $3x^2, (2xy)^3, \left(\frac{3}{x}\right)^{-1}$

- **M**ult.(& Div: $L \to Rt$)

- **A**dd.(& Sub: $L \to Rt$)

HW #1: Chap. 1 (p. 9) #17-51 Odd)

From page 9

Practice and Apply

Homework Help

For Exercises	See Examples
16–37	1, 3
38–50	2, 3
51–54	4

Extra Practice
See page 828.

More About. . .

Find the value of each expression.

16. $18 + 6 \div 3$

17. $7 - 20 \div 5$

18. $3(8 + 3) - 4$

19. $(6 + 7)2 - 1$

20. $2(6^2 - 9)$

21. $-2(3^2 + 8)$

22. $2 + 8(5) \div 2 - 3$

23. $4 + 64 \div (8 \times 4) \div 2$

24. $[38 - (8 - 3)] \div 3$

25. $10 - [5 + 9(4)]$

26. $1 - \{30 \div [7 + 3(-4)]\}$

27. $12 + \{10 \div [11 - 3(2)]\}$

28. $\frac{1}{3}(4 - 7^2)$

29. $\frac{1}{2}[9 + 5(-3)]$

30. $\frac{16(9 - 22)}{4}$

31. $\frac{45(4 + 32)}{10}$

32. $0.3(1.5 + 24) \div 0.5$

33. $1.6(0.7 + 3.3) \div 2.5$

34. $\frac{1}{5} - \frac{20(81 \div 9)}{25}$

35. $\frac{12(52 \div 2^2)}{6} - \frac{2}{3}$

Order of Operations: **G.E.M.A.**

1) $32 \div 2 \cdot 4 \rightarrow PEMDAS \quad 32 \div 2 \cdot 4 \quad \rightarrow 32 \cdot 8$

2) $32 \div |2 \cdot -4|$

$\quad GEMA \quad 32 \div 2 \cdot 4$

$32 \div |-8| = 32 \div 8 = \mathbf{4} \qquad 16 \cdot 4 = \mathbf{64}$ ☺

3) $32 - 2 + 4 \cdot 4 = 32 - 2 + 16$

$$= 30 + 16 = \mathbf{46}$$

Form HW page

$24. [38 - (8 - 3)] \div 3$

$26. \ 1 - \{30 \div [7 + 3(-4)]\}$

Order of Operations: G.E.M.A.

1) $29 + 16 \div 8 \cdot 25$

$29 + 16 \div 8 \cdot 25$

$29 + 2 \cdot 25$

$29 + 50 = \mathbf{79}$

Complete ALL problems from **HW #2** – Order of operations WS

Steps to Problem Solving

- **STEP 1: UNDERSTAND THE PROBLEM**
- **STEP 2: DEVISE A PLAN**
- **STEP 3: CARRY OUT THE PLAN**
- **STEP 4: LOOK BACK & CHECK**