BRING YOUR TEXTBOOK!!!!

Created by Mr. Lischwe Warmup 1/ (240×10^{-1})

• Solve each equation.

1) 19 - 5x = 12 - 5x

2) 4x + 10 = 4x + 18 + 3x

3)
$$2(3x+10) = 20$$

Collect Warmups

Going over the quiz

• Retake deadline: 2 weeks from today

- Turn in corrections/extra practice the day before the deadline (I recommend earlier)
- No tasks, must retake whole quiz

P. 55 (1-7, 13)

- 1) 3,160 10) <
- 2) 0.00011
- 3) 0.0000252
- 4) 4.3 x 10⁴
- 5) 7.2 x 10⁻³
- 6) 9.01 x 10⁻⁵
- 7) Arctic, Southern, Indian, Atlantic, Pacific

10) < 11) <

13) Sample answer:
1.2 x 10⁶ is closer
because it is equal to
1,200,000, and 1.2 x
10⁵ is only equal to
120,000, which is much
farther away from one
million.

DISCUSS:

2.849 x 10⁴⁵

1. When written in standard notation, how many total digits will this number have?

2. How many zeroes will it have?

Which number is bigger... 9 x 10⁵ 900,000

20,000,000

Or

2 x 10⁸?

Which number is bigger... 8.7654321 x 10³ 8,765.4321

1.23456 x 10⁴? 12,345.6

Or

Which number is bigger... 2.4 x 10³ 2400

8 x 10³?

8000)

Which number is bigger... 8 x 10⁻⁴ or 7 x 10⁻⁵?

.0008 > .00007



.0062 > .00098



• The size of big numbers is largely determined by how many digits it has.

- Every time you multiply by 10, you add a digit to a number.
- As long as your "a" number is between 1 and 10, the **exponent** will <u>always</u> tell you which number is bigger!

Which number is bigger?

Put these numbers in INCREASING order:

3.2 x 10⁴
2.8 x 10³
8 x 10³
6.15 x 10²

6.15 x 10² 2.8 x 10³ 8 x 10³ 3.2 x 10⁴ Put these numbers in INCREASING order:

A. 6 x 10⁴⁵
B. 2.84 x 10⁴⁵
C. 9 x 10⁴³
D. 1.6 x 10⁴⁶

9 x 10⁴³ 2.84 x 10⁴⁵ 6 x 10⁴⁵ 1.6 x 10⁴⁶

How big of a difference is this???

010²⁴ and 10⁻¹⁶

A video that shows the power of scientific notation...

• Powers of ten video

How big of a difference is this???

010²⁴ and 10⁻¹⁶

HOMEWORK: p.57 (24, 25, 26)