

PRACTICE

A scientist weighed 4 grains of rice with a total weight of 1.64×10^{-2} grams. Find the average weight of each grain.

$$\frac{1.64 \times 10^{-2}}{4}$$

$$\frac{.41 \times 10^{-2}}{4.1 \times 10^{-3}}$$

PRACTICE

A scientist found 2 grains of rice. One weighed 1.82×10^{-2} grams and the other 1.3×10^{-2} grams. Find the difference in their weights and write your answer in scientific notation.

$$1.82 \times 10^{-2} - 1.3 \times 10^{-2}$$

$$(1.82 - 1.3) \times 10^{-2}$$

$$\begin{array}{r} 0.52 \times 10^{-2} \\ \hline 5.2 \times 10^{-3} \end{array}$$

REVIEW

How many times larger is 1.3×10^{11} than 1.3×10^9 ?

$$\frac{1.3 \times 10^{11}}{1.3 \times 10^9}$$

$$1 \times 10^2$$

$$\boxed{100}$$

How many times larger is 7×10^8 than 7×10^5 ?

$$\frac{7 \times 10^8}{7 \times 10^5}$$

$$1 \times 10^3$$

$$\boxed{1000}$$

REVIEW

Evaluate the expressions and write in scientific notation.

$$\frac{5 \times 10^6}{4 \times 10^2}$$

$$1.25 \times 10^4$$

$$\frac{8.2 \times 10^3}{2 \times 10^{-6}}$$

$$4.1 \times 10^9$$

REVIEW

Evaluate the expressions and write in scientific notation.

$$(1.4 \times 10^{-3}) + (6.2 \times 10^{-2})$$

$$(2.06 \times 10^{-2}) - (1.7 \times 10^{-3})$$

$$(1.4 \times 10^{-3}) + (6.2 \times 10^{-3})$$

$$20.6 \times 10^{-3} - 1.7 \times 10^{-3}$$

$$(1.4 * 6.2) \times 10^{-3}$$

$$(20.6 - 1.7) \times 10^{-3}$$

$$63.4 \times 10^{-3}$$

$$18.9 \times 10^{-3}$$

$$6.34 \times 10^{-2}$$

$$1.89 \times 10^{-2}$$

11/4/19 Joe
ReAlg

8.6×10^{13} and 4×10^9

→ all operations - review - test Wed

⊕ 2.15×10^4
⊗ 3.44×10^{23}

⊕
⊖

→ Calculators? No calculators?

→ Gr8 uses them
Hmmm...

8.6×10^{13}
 8.600010^{13}
 4×10^9
 8.5996×10^{13}
 8.60004×10^{13}
 8.5996×10^{13}

→ Put up work on smartboard

→ They like this opportunity to show it.

→ Review packet

→ Nice big text, lots of space

→ less overwhelming

→ Answer keys provided to go back over work.

$3 + 46 = 9$

$3 - -6 =$

8.2×10^3
 2×10^6
 $8.2 \times 10^3 \times 10^6$
 2

(X)
 (X)
 (X)

→ This is so positive for putting the learning on them and showing how to independently study it.

Joe
Really

- Indap were fine
- Students came to JD
when stuck

• "What's a strategy that
we use?"
• St: make
smaller #s
• Writing some
work on a post-it as
support

• Some whisper support
when stuck

• Question from L. Brian
↳ know which way to set up
• Claire Link → good # sense
+ something

• #2 seems like a stumper
• JD - moving w/ answer
key + then decide

• Looked @ #1 to
see who got it
• Nice looking
for evidence
* Then 3 points
of specific
feedback

• Place value → labeled board w/ #
in the billions
↳ need to convert billions

→ Brought
out the
misconceptions
by

Three has:

#2 1.6

#1 3.765 x 10⁰

↳ can take
the 100
off because
it's bigger

Place value → labeled board w/ #
in the billions
↳ need to convert billions

→ So much good
stuff going on!!

Wonder about...

- time for purposes!
- other ways
to practice

→ Completely silent!

→ St. know strategies

• Provides an artifact
for student to take
with her as reference
• Keeps the ownership
for the actual work
on the student

• I shared him to use
the words as labels
in setting up a ratio
to decide what to divide.

