

Station 1

- a) A carpenter ant is about $\frac{1}{36}$ foot in length. A large ant nest was found to have tunnels as long as 10 feet. How many times longer than the ant is the tunnel?
- b) Anna made sandwiches for her brother's hungry football team. The team ate 35 sandwiches, while Anna only ate half of a sandwich. How many times more sandwiches did the team eat than Anna?

Station 2

Butterfly	Wingspan
Great White	36.7×10^{-1}
Large Orange Sulphur	$3 \frac{1}{8}$
Apricot Sulphur	$ -3.625 $
White-Angled Sulphur	$\frac{7}{2}$

- a) List the butterflies in order from greatest to least wingspan.
- b) The Pink-Spotted Swallowtail's wingspan can measure $3 \frac{5}{16}$ inches. Between which two butterflies in the table would its measurements fall?

Station 3

Part 1 & 2: Write all sets that the following numbers belong to. Then create a Venn Diagram of the Sets of Real Numbers to place each number in.

a) -3000×10^{-4}

b) $-\sqrt{441} - (-\sqrt{25})$

c) $2\sqrt{48} + 9$

d) $\frac{-\sqrt{576}}{-\sqrt{4}-1}$

e) $\pi + 3$

f) 2^{-2}

g) $-3\frac{1}{5}(-3\frac{3}{4})$

Station 4

Part 1: Write each of the following in scientific notation.

a) -9909

b) 1.3

c) 0.000003

d) -59

e) 10,000

Part 2: Write each of the following in standard notation.

a) -2×10^{-3}

b) 3.47×10^8

c) -0.89×10^{-4}

d) 15×10^3

e) 7×10^{-1}

Station 5

a) The area of Mrs. Harrison's square bedroom is 324 square feet. As part of her renovations for the room, she is going to install crown molding on both the top and bottom edges of the room. How many feet of crown molding will Mrs. Harrison need to complete the renovation?

b) If the crown molding costs \$8.10 per foot, how much money will Mrs. Harrison spend?

Station 6

Check Quiz 1.3!

Go see your teacher for this station!

1) Find your Quiz 1.3 in the pile.

2) Use the answer key to review your work/mistakes.

3) Perform error analysis to determine what kind of errors you made.

> Careless – not reading the question fully/properly, not paying attention to units, etc.

> Calculation – adding, subtracting, multiplying, or dividing incorrectly

> Conceptual – incorrect steps or strategy*

*The ONLY way for you to avoid this type of error in the future is to “revisit” the concept by reviewing your notes and working/reworking homework/classwork/assessment problems that are similar. If you can't fix the issue on your own, don't be shy – talk to your teacher!

Station 7

- a) Andres donates $\$25 \times 10^{-2}$ to the SPCA from his bank account each day. How much money will he have donated at the end of 3 years?
- b) An average African bush elephant weighs about 1.2×10^4 pounds. An average African forest elephant weighs about 60×10^2 pounds. How many pounds heavier is an African bush elephant than the African forest elephant? Write your answer in both scientific and standard notation.

Station 8

a) Dominique is horrible at finances. She decides to try a new method of saving money in which she will put $\$10^{-2}$ into a jar each day and then deposit the jar's amount into her bank account at the end of each month. If Dominique uses this method of saving money for one year, how much money will she have saved?

b) A square window that is 130 ft^2 is being installed in a building. Construction workers need to install a wooden frame around the window. The framing material is only sold in whole foot measurements, and costs $\$1.50$ per linear foot of frame. How much will the materials cost to frame around the window. (Hint: Do not round the amount of material needed until you are ready to buy your materials)

Station 9

Simplify each expression.

$$\text{a) } -2\sqrt{5.29} - \sqrt{49} =$$

$$\text{b) } -21000^2 =$$

$$\text{c) } 2.1^0 - 0.5\sqrt{3.61} =$$

$$\text{d) } (-200)^2 - \sqrt{576} =$$

$$\text{e) } -\frac{\sqrt{0.64}}{\sqrt{0.0001}} =$$