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POSITIVE AND NEGATIVE NUMBERS

A

Today's Destination

What is a negative number?

⬧ **Vocabulary** — — — — — — — — — — — —

Integers   The set of whole numbers and their opposites

Negative Number   A number that is less than zero

Plot   To draw a dot at a certain point on a number line or graph

Positive Number   A number that is greater than zero

⬧ **Problem of the Day** — — — — — —

How much money has Matt spent? _____

SIDE TRIPS

1) Stan says, "A number line is like an elevator. All the floors below ground are negative numbers, and all the floors above ground are positive numbers."

Draw a diagram to illustrate Stan's comparison.

Draw It!

E

2) Which fraction below is closest to zero?

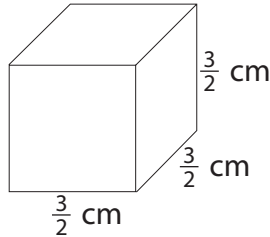$$\frac{1}{5}, -\frac{1}{9}, -\frac{2}{3}, \frac{1}{8}$$

Write It! _____

Explain your reasoning.

Explain It! _____

_____

_____

_____

_____

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SIDE TRIPS

1) Chris wants to find the volume of the cube below. He knows that he needs to multiply the length times the width times the height.

$\frac{3}{2}$ cm

$\frac{3}{2}$ cm

$\frac{3}{2}$ cm

Show Chris how to write an expression with an exponent to solve this problem. Then find the answer as a mixed number.

Write It!

_____

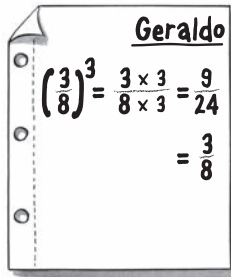**Compute It!**

2) Geraldo made a mistake in the work below.

Geraldo

$$\left(\frac{3}{8}\right)^3 = \frac{3 \times 3}{8 \times 3} = \frac{9}{24}$$
$$= \frac{3}{8}$$

Explain Geraldo's mistake.

Explain It!

_____

_____

_____

Solve the problem correctly.

Compute It!

J

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