How Much is a Million

Link

POS/SOL: MA 2.12 **Marzano Strategy:** Nonlinguistic Representations

We have been discussing linear measurement this past week. Review with students the various units of measurement as well as the importance of standard measurement. Today we are going to examine the question, "How Much is a Million"

Assessment: Class discussion

Engage and Educate

Read How Much is a Million by by David M. Schwartz. How long would it take to count to a million? How large a room does it take to put in a million pennies? How long would it take to gather a million pennies? How could we figure out the length of 100 dollar bills laid out end to end? How could we determine the height of 100 pennies stacked?

Assessment: Class discussion

Active Learning

Have students work in groups to answer the following two questions?

- How long would 100 dollar bills be if laid out end to end?
- How high would a stack of 100 pennies be?

Students should use both systems of measurement. Students should find the answer in cm. and m., as well as in. and ft.

Assessment: Completed product

Have students work in groups to answer the following two questions?

- How long would 1,000 dollar bills be if laid out end to end to end?
- How high would a stack of 1,000 pennies be?

Assessment: Completed product

Have students work in groups to answer the following two questions?

- How long would a million dollar bills be if laid out end to end to end?
- How high would a stack of a million pennies be?

Answers:

One million dollar bills:

15,500,000 cm	6,125,000 in
155,000 m	510,417 ft
155 km	97 mi

One million pennies:

142,857 cm	55,555 in
1,429 m	4,630 ft
1.43 km	9/10 mi

Assessment: Completed product

Reflect

Have students share their findings with the class.

Now and Then

Tell students that we will continue to examine different forms of measurement throughout the week.