

Name_____ Date_____

End of Module Study Guide

1) Use an area model to explain the product of 5.3 and 8. Write the product in standard form, word form and expanded form.

2) Compare the following using $<$ $>$ or $=$.

A) 4 hundredths + 2 tenths  0.42

B) 9.32  $6 + 32 \times \frac{1}{10} + 12 \times \frac{1}{100}$

3) Ms. Green did a science investigation in which the class grew plants. Below are the heights of the plants from each group:

Group 1: 4.329 cm Group 2: 3.9 cm Group 3: 4.02 cm

Group 4: 4 cm Group 5: 3.712 cm

a) About how tall were all of the plants combined together? Estimate the height of each plant by rounding to the nearest tenth of a cm before finding the sum. Show your thinking.

b) Find the actual total height of all of the plants combined. What is the difference between the estimated about (above) and the actual combined heights.

c) To find the average of a set of data you must add the numbers and divide by the number of values you have in your data set. Find the average height of the plants by dividing the combined total of the heights by 5.

4) The following problems involve different quantities and use different operations, but result in the same answer. Use a place value chart and words to explain why this is true.

A) $6.12 \times 10 = 6,120$

B) $612,000 \div 10 = 6,120$