Math Madness #100
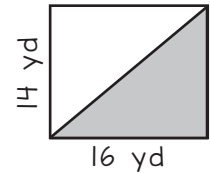
1. Which pair is equivalent?

   a. 2.065 and $2\frac{65}{100}$

   b. 3.4 and $3\frac{3}{5}$

   c. 2.3 and $\frac{3}{2}$

   d. 4.75 and $\frac{38}{8}$

5. This diagram shows David's backyard. The shaded area represents his vegetable garden. What is the area of David's vegetable garden?

   a. 60 square yards
   b. 112 square yards
   c. 224 square yards
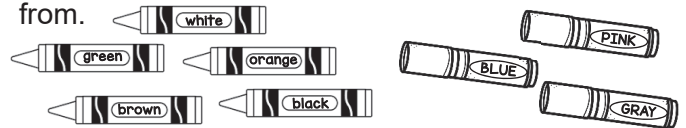   d. 240 square yards

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2. Change each of the following to a decimal as indicated.

   Change $12\frac{10}{200}$ to hundredths __12.05__

   Change $7\frac{14}{16}$ to thousandths __7.875__

6. Declan has these crayons and markers to choose from.

   How many combination can Declan make using 1 crayon and 1 marker?

   a. 5   **c. 15**
   b. 8   d. 16

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3. Last year, an auto repair shop painted 20 cars red. Which of the following could represent the fraction of cars that were painted red?

   a. $\frac{3}{8}$ of 56 cars   c. $\frac{4}{5}$ of 30 cars

   b. $\frac{5}{6}$ of 24 cars   d. $\frac{2}{3}$ of 24 cars

7. This is a list of the number of homes in some neighborhoods.

$$68, 62, 83, 67, 80, 76, 82, 76, 78, 76$$

Which stem-and-leaf plot shows this information?

a.

Number of Homes

Stem	Leaf
6	2 2 7 8
7	6 6 6 8
8	0 2 3

6|2 means 62

b.

Number of Homes

Stem	Leaf
6	2 7 8
7	6 8
8	0 2 3

6|2 means 62

c.

Number of Homes

Stem	Leaf
6	2 7 8
7	6 6 6 8
8	0 2 3

6|2 means 62

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4. Charlie bought 551.26 grams of vegetables. He bought four green peppers and one cucumber. If each green pepper weighed 108.09 grams, how much did the cucumber weigh?

   a. 118.1 grams
   b. 118.9 grams
   c. 218.1 grams
   d. 218.9 grams

8. Which of the following means the same as the equation below?

$$\frac{15}{y} + 10$$

   a. a number divided by fifteen, multiplied by ten
   b. fifteen times a number, increased by ten
   c. the quotient of fifteen and ten, divided by a number
   d. the quotient of fifteen and a number, increased by ten

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9 & 10 (2 points) Constructed Response

Julia will make a taco. She can choose one type of shell and one type of meat. How many different combinations can Julia make?

Shell	Meat
Hard	Ground Beef
Soft	Steak
	Chicken

Julia can make ___**6**___ different tacos.

List all the combinations of one type of shell and one type of meat Julia can create.

__hard shell / ground beef__   __soft shell / ground beef__

__hard shell / steak__   __soft shell / steak__

__hard shell / chicken__   __soft shell / chicken__

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