A. Write each ratio in simplest form based on the following situation. DON’T FORGET TO SIMPLIFY! (2 points each)

There is a box of colored marbles on the countertop. There are 24 blue, 16 green, and 56 red.

1) green to red                      2) red to blue

3) blue to total marbles

In a bag there are 72 candy bars. 40 of them are Snickers, 24 of them are Milky Ways, and the rest are Kit Kats.

4) Snickers to total candy bars      5) Kit Kats to Milky Ways

B. Write each unit rate. DON’T FORGET TO LABEL! (2 points each)

6) Jen bought 5 CDs for $57.50
What was the unit price?

7) In 8 minutes, Josh was able to type 496 words. What’s his typing speed in words per minute?
8) Kyle ran the 200-meter dash in 12.5 seconds. How fast did he run in meters per second? 9) Mr. Seidel filled up his 14-gallon gas tank for $29.26. What was the price per gallon?

C. Solve each proportion. (3 points each)

10) \( \frac{36}{x} = \frac{8}{7} \)
11) \( \frac{k}{18} = \frac{17}{4} \)

D. Solve each word problem using proportions. I MUST SEE THE PROPORTION IF YOU WANT FULL CREDIT! (4 points each)

12) Louie bought 12 kilograms of shrimp for $252 for a party he is having. He decided to buy 5 more kilograms at the last minute. How much will it cost?

13) After riding the stationary bike for just 8 minutes, Betty had burned 50 calories. How long must she ride if she wants to burn 325 calories?
14) Johnny can type a 600 word essay in just 8 minutes. How long will it take to type a 2,100 word essay?

15) It takes the Appealing Fruit company about 16 hours to peel, box, and ship 500 cartons of apples. How many cartons can they box and ship in 2 days?

EXTRA CREDIT: (1 point for correct choice, 1 point for its exact unit price)

You will be asked to determine the “better value” when given a chart of prices.