Grade 5 Unit 1 quiz 2: Multiplying a decimal by ten, one hundred or one thousand, Dividing a decimal by ten, one hundred or one thousand, Numbers in other bases

Name _____ Date _____ Period _____

8 questions, 19 points

1. The garden club buys 100 bags of soil. Each bag costs 2.92 dollars. The club has 600 dollars to spend. How much money is left after buying the soil? (2 points)

2. Multiply. (4 points)

(a) 0.59 × 10 (b) 2.083 × 100 (c) 0.46 × 1,000 (d) 7.1×10^3

3. Aisha's class makes a paper chain. Each link uses 0.2 meters of paper strip. The whole chain used 200 meters of strip. (2 points)

(a) How many links are in the chain?

(b) Write that number as a power of ten.

4. Find $39.2 \div 10^2$. Then name the place the digit 3 is in before you divide, and the place it is in after. (2 points)

5. Divide. Watch for empty places and for zeros you can drop.

(a) 4.07 ÷ 10 (b) 3 ÷ 1,000 (c) 2,500 ÷ 100 (3 points)

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6. A craft shop sells pom-poms in a bag of 10 for 3.30 dollars, or in a tub of 100 for 27 dollars. Find the price of one pom-pom each way. Which way costs less per pom-pom? (2 points)

7. Lily writes how many stickers she has in base five: 241_{five}. Omar has 77 stickers. Who has more stickers, and how many more? (2 points)

8. Hiro's light board has five bulbs in a row. From left to right they are worth 16, 8, 4, 2 and 1. A lit bulb counts its value and a dark bulb counts nothing. Hiro wants the board to show 18. Which bulbs should be lit? Write 18 in base two. (2 points)

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