Decimals, Percents and Proportions: Chapter Test 1

1. Which of the numbers below is equivalent to 15.099

    a. 15.0099

    b. 150.099

    c. 15.0990

    d. 105.099

2. If 453.634 is divided by 100, how will the decimal point move?

    a. It will move one place to the right.

    b. It will move 2 places to the right

    c. It will move 2 places to the left

    d. It will move one place to the left

3. Which decimal number below is less than 45.19?

    a. 45.179

    b. 45.291

    c. 45.1911

    d. 45.2

4. The dollar closed at $0.568 today compared to the British pound. That's four one hundredths of a cent more than yesterday. What was the value of the dollar yesterday?

5. Petra read 0.3 of her Ms. Brown's biology article.

    Dana read 40% of the same article.

    Jimmy read $\frac{1}{5}$ of the same article.

    Who read the most of her article?

    If there were 20 pages in this article, how many pages did each student have left to read?

6. a. Write the following numbers in standard form (digits).

    i. $6 \times 10^3 + 4 \times 10^2 + 8 \times \frac{1}{10^2} + 5 \times \frac{1}{10^3} = $ _____

    ii. $2000 + 4 + 0.5 + 0.002 = $ _____

    iii. $2 \times \frac{1}{10^3} = $ _____

    b. Write the following numbers in written form (in words).

    i. $300.01 = $ _____

    ii. $2.345 = $ _____

    iii. $0.3 = $ _____

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7. The price of an ipod decreased from $220 to $150. Later, the price decreased again from $150 to $90. Which of the two percentage decreases was larger?

8. A 5 gallon can of paint was on special from 95$ to $66.50. What was the price discount as a percent?

9. Perry kept $570 in a bank account which paid interest of 4% a year. If he keeps his money there for 3 years, how much interest will he earn in total after the three years?

10. Complete the table given below:

Reduced fraction	decimal	percent	Ratio
$\frac{4}{5}$			
	0.01		
		125%	
			2:15

Extension

11. April used a micrometer to measure the thickness of a piece of paper. The paper measured halfway between 0.74 millimeters and 0.75 millimeters. What is the thickness of the paper?

12. Michelle made 12 of 30 free-kicks with her soccer team this year. Sara made 0.587 of her free-kicks and Chelsea's average was 59%. Of these three players, who was the best free-kick shooter this year?

Decimals, Percents and Proportions: Chapter Test 2

1. The fraction $\dfrac{4298}{1000}$ can be represented by which decimal?

   a. 4.298

   b. 42.98

   c. 0.4298

   d. 4298.000

2. What is the number 124.599 to the nearest hundredth?

   a. 100

   b. 124.100

   c. 120

   d. 124.6

3. Which decimal has the greatest value?

   a. 0.084

   b. 0.09

   c. 0.1

   d. 0.05996

4. How much greater is 0.0543 than 0.002?

5. A box contains 100 pencils. If each pencil weighs 3.25 grams, how much does the entire box weigh?

6. A hockey team played 55 games. They won 35 games and had no ties. What percent of the games did they lose? Round your answer to the nearest tenth.

7. The price of a painting decreased by 24% to $300. What was the original price of the painting?

8. Simon answered 102 questions correctly on his test. If his grade was 85%, how many questions were on the test?

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9. **a.** Write the following decimals as mixed fractions
    i. 5.23
    ii. 2.1
    iii. 54.212

    b. Write the following mixed fractions as decimals
    i. $3\dfrac{2}{5}$

    ii. $6\dfrac{1}{4}$

    iii. $10\dfrac{1}{10}$

    c. Solve for x
    i. $2.5 + x = 10.07$
    ii. $x - 2.1 = 4$

10. Express the following ratios in the same unit and reduce your resulting ratio. *Hint: Always convert into smaller unit (change dollars to quarters).*

    $2 to 12 quarters _____

    4 weeks to 18 days _____

    4 hours to 100 minutes _____

    3 dimes to 25 cents _____

Extension

11. When making a purchase, a man gave the sales clerk two $20 bills at the cash. What was his change if he bought a t-shirt for $12.49 and gloves for $10.89? Assume that the taxes were included in the price.

12. Rob purchased movie tickets for $48.84. If he paid for four people, how much did each ticket cost?