Math 1435 – Test 1 review

Info:

* 15 questions (total of 40 marks)
* You will have 1 hour to complete the test. You may be provided additional time to upload the test if it takes place remotely due to unforeseen circumstances.
* The test is a combination of multiple-choice problems, simple calculations and word problems, and you are expected to provide short answers where appropriate.
* Be sure to read the instructions carefully. Pay attention to number of decimal places and how you enter your numbers.
* Test 1 covers:
  + Word problems with whole numbers.
  + Fractions (mixed, add, subtract, multiply & divide).
  + Percentages.

Practice Problems

1. A small cabinetmaking firm purchased 2,244 litres of lacquer this year. The year-end inventory indicated that one, 205 litre drums and two 20-litre pails remain. How much lacquer was used during the year?
2. At $5.47 per litre, what is the value of the remaining inventory of lacquer in question 2?
3. How much money was spent on all the lacquer used last year?
4. Express as a mixed fraction.
5. Subtract 1 from 3.
6. Multiply by .
7. Divide by .
8. An employee’s paycheck is $542.65. she worked 42 hours. How much is she paid per hour to the nearest cent?
9. Express 45.5% as a decimal.
10. Find 2% of $8.75 to the nearest cent.
11. $2.12 is what percent of $4.75?
12. Two shops sell the same item for $100. Both shop owners decide to give a 10% discount, but they calculate it in two different ways.
    1. Shop A decides to find 10% of 100, then subtracts that amount from $100. The result is the final sale price of the item. Find this amount.
    2. Shop A then calculates 13% of the final sale price (because the Tax man needs to be paid, duh!) and adds that amount to the final sale price. Find the total amount a customer will have to pay to buy the item from shop A.
    3. Shop B calculates 13% tax on $100 and adds that to $100. Then they take 10% of that result and subtracts this amount from the previous result to find how much the customer should pay. Which of the following options is correct when a customer buys the item?
       1. Customer pays more in shop A than in shop B.
       2. Customer pays more in shop B than in shop A.
       3. Customer pays the same amount in both shops.
13. A panel saw operator has a lift of plywood, 3’ 10high. How many sheets are in the lift?

Test A Review Answer Key:

1. 1,999 L (2244-245)
2. $1,340.15 (245L x $5.47)
   1. $ 10,934.53 ((2244L - 245L)x $5.47)
3. 2
4. 2
5. 1
6. $12.84/ hr
7. 0.455
8. $0.18 ($8.75 x 2%)
9. 44.6% ($2.12/$4.75= 0.446)
10. (a) $90 (b) $101.70 (c) iii (customer pays the same)
11. 372