

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?
 - b. How much money was spent on all the lacquer used last year?
3. Express $\frac{37}{16}$ as a mixed fraction.
4. Subtract $1\frac{1}{2}$ from $3\frac{4}{7}$.
5. Multiply $\frac{4}{5}$ by $\frac{3}{8}$.

6. Divide $\frac{2}{3}$ by $\frac{3}{5}$.
7. An employee's paycheck is \$542.65. she worked $42\frac{1}{4}$ hours. How much is she paid per hour to the nearest cent?
8. Express 45.5% as a decimal.
9. Find 2% of \$8.75 to the nearest cent.
10. \$2.12 is what percent of \$4.75?
11. 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.
 - a. 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.
 - b. 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.
 - c. 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?
 - i. Customer pays more in shop A than in shop B.
 - ii. Customer pays more in shop B than in shop A.
 - iii. Customer pays the same amount in both shops.
12. A panel saw operator has a lift of $\frac{1}{8}$ " plywood, $3' 10\frac{1}{2}"$ high. 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)
b. \$ 10,934.53 ((2244L - 245L)x \$5.47)
- 3) $2\frac{5}{16}$
- 4) $2\frac{1}{14}$
- 5) $\frac{3}{10}$
- 6) $1\frac{1}{9}$
- 7) \$12.84/ hr
- 8) 0.455
- 9) \$0.18 (\$8.75 x 2%)
- 10) 44.6% (\$2.12/\$4.75= 0.446)
- 11) (a) \$90 (b) \$101.70 (c) iii (customer pays the same)
- 12) 372