Supplemental Instruction Handouts

Business Math

Review of Chapters 1, 2, 3 & 4

1. The total cost of a winter parker (including HST of 13% on the retail price) is $214.57. What is the retail price of the coat?

2. $43.85 is what percent less than $50.99?

3. Mrs. Smith has an annual salary of $75,000 and is paid semimonthly. Her regular workweek is 40 hours a week. She is paid time and half if she works overtime. What is her pay for a week in which she worked 5 hours of overtime?

4. Larry works on a graduated commission scale. For the first $150,000 of sales he makes a commission of 7%. For the next $150,000 he makes a commission of 10%. If he exceeds $300,000 he makes a commission of 15%. What was his take home pay for a month in which Larry sells $350,000?

5. Sam is supposed to work 40 hours in a week, and if he works overtime, he gets paid at time and one – half his regular rate of pay. If Sam earned $850.20 for 48 hours of work during the last week, what was Sam’s regular rate of pay?

6. A certain good went from $1.50 in the base to $3.99 in the selected year. What is the current Consumer Price Index (CPI)?

7. In one year the CPI went from 105.6 to 109.2. How much money would you need at the end of the period to match $1,000 at the beginning of the period?

8. If a kitchen suite has a list price of $450 with a trade discount of 25%, what is the net price?

9. If a bookstore receives trade discounts of 15%, 7.5% and 5% on a textbook with a net price of $60.49, what is the list price?

10. A dishwasher has a list price of $695, has a net price to the store of $451.75. What is the rate of discount the store received?

Academic Success Centre

These questions were compiled by Michael Reimer for the Academic Success Centre.
Use the following information for the next two questions:

A discount of 32.5% on an item amounted to a $47.58 discount.

11. What was the list price?

12. What was the net price?

13. A sump pump costs a plumber $129.99 less a trade discount of 27.3%. He calculates markup to be 45% of cost. What is the selling price of the item?

14. A retail store buys an item for a cost of $45. What is the selling price of the item if the store marks the item up 34% of selling price?

15. An item purchased by retailer has a list price of $145 and is subject to trade discounts of 15% and 10%. The item was sold for $175 by the retailer. What is the rate of markup on selling price?

16. A light fixture has a cost of $173.18. The merchant calculates expenses to be 27% of selling price and profit to be 16% of selling price. What is the breakeven price of the light fixture?

17. Find the reduced selling price of an item if the regular selling price is $449.50 and is then marked down at a rate of 40% of regular selling price.

18. If a high definition television is reduced from $999.95 to $949.95 for a sale, what is the rate of markdown?

19. If you purchased a new PS4 for $399 in Manitoba, including taxes, how much sales tax would you pay? The GST is 5% and the PST is 7%.

20. If your company made purchases of $56,780 for the quarter and your company’s sales were $80,225, would your company have a remittance or a refund? How much GST (5%) is the remittance or refund?

21. A piece of property has an assessed value of $750,000. The mill rate on this piece of property is 5.3476. What are the taxes it will have to pay this year?

22. How much Canadian would be required if you need 2000 Euros for your vacation? The current exchange rate is $1 Canadian for €0.69 Euro. Also, the bank charges a 2% fee on this type of transaction.
23. Calculate the amount to settle an invoice dated August 10 in the amount of $640 with terms of 5/10, 2/30 and n/60, if the invoice was paid on September 9.

24. An invoice for $1,975 was dated November 13 with terms of 4/10 and n/30. What payment on November 23 must be made to reduce the debt to $1,000?

25. An invoice for $4,250 was dated October 12 with terms of 4/10, 2/30 and n/60. If a payment of $2,000 is made on October 22 to reduce the debt, what was the amount credited to the account?

26. If you have $450 US left over from your vacation and you go to the bank to change the cash back into Canadian, how much Canadian would you get? The current exchange rate is $1.32 Canadian for $1 US. Also, the bank charges a 1.5% fee on this type of transaction.