Math 8 Assignment **Name:**
Chapter 3 Percentages Review **Date:**

1) Write each percent as a decimal. **(2 marks – ½ mark each)**

    a. 32%   b. $9.\overline{3}$%   c. 125%   d. $11\dfrac{1}{4}$%

2) Write each decimal or fraction as a percent. **(2 marks – ½ mark each)**

    a. $\dfrac{5}{8}$ b. 0.05   c. 0.0001   d. $\dfrac{7}{4}$

3) Find each percent of a number. **(2 marks- ½ mark each)**

    a. 15% of 75   b. 6.2% of 450

    c. $12\dfrac{1}{2}$% of 150   d. 125% of 36

4) Find the missing percent. Round to the nearest percent. **(2 marks – ½ mark each)**

    a. _____% of 200 is 40   b. _____% of 250 is 75

    c. _____% of 16 is 52   d. _____% of 16.5 is 0.198

5) Find the number (or find 100% of the number).   **(4 marks – 1 mark each)**

    a. 60% of a number is 78.   `   b. 5% of a number is 87.

    c. 27% of a number is 135.   d. 4.5% of a number 13.5.

6) Calculate each amount.   **(4 marks – 1 mark each)**

    a.   35% of $52.00   b. 8.5% of $500

    b.   76% of $1.25   d.   12% of $370

7) Complete the following table. These items were bought in Ontario and the G.S.T. is 7% and P.S.T. is 8% in that particular province. You can use the space below the table to show your work.   **(4 marks – ½ each blank)**

ITEM	Original Price	Discount %	Sale Price (after discount)	G.S.T.	P.S.T.	Total Cost
T-Shirt	$20.00	10%				
Belt	$75	25%				

8) Complete the following table by writing the original price as a percent of the new price.   **(2 marks – 1 each)**

Original Price	New Price	Percent
$7.50	$12.00	
$918	$1303.56	

The following word problems are all worth 1 mark. Answer with a complete sentence.

9) The area of Moscrop Secondary School is 48% of the area of Metropolis at Metrotown mall. The mall area is 18 250 m². What is the area of Burnaby South Secondary School?

10) Ernie and Bert bought an old bike for $20.00. They repaired it and sold it for $75.00. What was their selling price as a percent of their buying price? (They made a lot of money, eh?)

11) The elevation of Moose Jaw above sea level is 265% of the elevation of Vancouver. The elevation of Vancouver is 50 metres. What is the elevation of moose Jaw?

12) On Wednesday at the school cafeteria, 62.5% of the 192 hot meals served were the daily special. How many daily specials were served?

13) What is the sale price of a $27.50 book at 20% off?

14) Luigi sold a $285 000.00 house for a commission of 5.6% of the purchase price. How much commission did he earn?

15) On James' first birthday, his height was 80 cm. His height on his second birthday was 108% of his height on the first birthday. His height on his third birthday was 115% of his height on his second birthday. How tall was James on his third birthday?

16) A CD was on sale at 15% off of the regular price. The price was then increased by 15% of the sale price. Was the final price the same as the regular price? Explain either in words or with an example using numbers.

Problems #17 to #20 are all worth 2 marks.

17) Danny lend $815 000 to Benny for a 3 year term, the rate of return was 9% per year. How much would Benny have to return at the end of the 3 year term? Round to the nearest penny.

18) The regular price of a sweater was $125. For a sale, the price was reduced by 25%. A week later, the price was reduced by an additional 20% off the first sale price.

    a.   What was the <u>final</u> sale price?

    b.   What <u>percent</u> of the regular price was the final sale price?

19) Benny invited his friends to Stepho's for Greek food. They ordered 6 rack of lambs. Each rack of lambs cost $12.50. Considering that they had to pay for the cost of the food, the tax (assume GST and PST in BC), as well as leaving a 15% tip, how much do they have to pay altogether?

20) Nancy shops at the Bay each time they have their scratch and save days. Last time, she bought a pretty pink dinner dress. The original price was $250. The sign on the clothing rack said the item was 30% off. She then went to the counter to receive her scratch and save card and received an additional 25% off the price. Then she applied for a Bay credit card and they gave her an additional 10% off. After all the discounts and all the taxes, how much did Mrs. Lee pay for her pretty pink dinner dress? Round your answer to the nearest cent.