

Math 8 Assignment
Chapter 3 Percentages Review

Name:
Date:

1) Write each percent as a decimal.

(2 marks - 1/2 mark each)

a. 32%

b. $9.\overline{3}\%$

c. 125%

d. $11\frac{1}{4}\%$

2) Write each decimal or fraction as a percent.

(2 marks - 1/2 mark each)

a. $\frac{5}{8}$

b. 0.05

c. 0.0001

d. $\frac{7}{4}$

3) Find each percent of a number.

(2 marks- 1/2 mark each)

a. 15% of 75

b. 6.2% of 450

c. $12\frac{1}{2}\%$ of 150

d. 125% of 36

4) Find the missing percent. Round to the nearest percent.

(2 marks - 1/2 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 - 1/2 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.
- What was the final sale price?
 - What percent 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.