

Name: \_\_\_\_\_

## UNIT 8 LEARNING GUIDE – FINANCES

### INSTRUCTIONS:

Using a pencil, complete the following questions as you work through the related lessons. Show ALL of your work as is explained in the lessons. Do your best and always ask questions if there is anything that you don't understand.

### 8.1 HISTORY OF FINANCE

1. Classify each example as barter or money.

	Barter	Money
a. Trading doing the dishes for a hamburger.		
b. Exchanging \$10 for a movie ticket		
c. An exchange using coins or banknotes.		
d. J.T. gets a new car and pays for it with his credit card.		
e. Mr. R traded Mr. B two chickens for a leather belt.		
f. The trading of one service for another service.		
g. Trading seven dollars for a hamburger.		
h. Simi gives Jim her cookies in exchange for him cleaning her desk.		

2. The 5 steps of Material Consumption are listed below, but they are not in order.

**Consumption   Distribution   Extraction   Disposal   Production**

- a. Order the steps that “stuff” moves through.

i.

iv.

ii.

v.

iii.

- b. Give an example of what each step might look like for a cell phone.
    - i.
    - ii.
    - iii.
    - iv.
    - v.
3. Give two examples of how you think consumerism negatively affects our society.
4. Identify each habit as a habit of consumerism or a habit of minimalism.
  - a. The need of an item is carefully considered prior to purchasing.
  - b. Items are purchased to help you be happy.
  - c. Judging people based on what they own.
  - d. Valuing experiences over things.
  - e. Buying items that are a good deal, even if they aren't really needed.
  - f. Recognizing that material goods do not lead to long-term happiness.

8.2 SAVING MONEY
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1. Classify each example as a *need* or a *want*.

	Need	Want
a. The newest style of runners.		
b. A warm jacket.		
c. Healthy breakfast food.		
d. Netflix or cable TV		
e. Medicine if you are sick.		
f. Shelter (an apartment, house, etc.)		
g. Chocolate bars.		
h. Swimming lessons.		

2. Meredith wants to save up for a new bike which costs \$1100. She earns \$165 per **week** as a dishwasher. If she saves all her money each week, how long will it take her to save up enough money for the bike?
3. Alex wants to purchase a drafting table that costs \$315. He plans on saving half of his paycheck each **month** in order to save up for this purchase. His average monthly earnings are \$235. How long will it take him to save up enough for the drafting table?
4. What does each letter stand for in a S.M.A.R.T. budget?
- S \_\_\_\_\_
- M \_\_\_\_\_
- A \_\_\_\_\_
- R \_\_\_\_\_
- T \_\_\_\_\_

5. Create a SMART budget for yourself by following the steps below. You can choose to use the amount of money that you earn now, or you can use an amount that you hope to earn in your first job.

**Step 1:** Add up all of the money that you earn in one month.

Total monthly income: \_\_\_\_\_

**Step 2:** Write down how much money you want to save and what you want to save it for.

Savings goal: \_\_\_\_\_

**Step 3:** Write down what you normally spend your money on each month.

Total monthly expenses: \_\_\_\_\_

**Step 4:** Subtract your expenses from your income. This is the amount that you can put into savings.

Total amount into savings per month: \_\_\_\_\_

**Step 5:** Compare your *Savings Goal* and how much you can put into savings each month. How long will it take for you to reach your *Savings Goal*?

6. Use the questions below to determine if the budget that you created in Question 5 is a S.M.A.R.T. budget.

Specific: Are you specific with what you are saving for?

Measurable: Do you know exactly how much you need to save?

Attainable: Are you able to reach your goal if you stay on track?

Realistic: Looking at your finances, is this budget realistic?

Timely: Is your budget able to get you what you're saving for in a reasonable amount of time?

7. Based on your answers to Question 6, write down any changes that you need to make to your original budget.

### 8.3 PERCENTAGE DISCOUNTS

1. Find 10% of each number. *Reminder: To find 10% of a number, move the decimal one place to the left. If a number doesn't have a decimal, we can place one at the end.*

Ex. 280

**28**

c. 94

f. 75

a. 160

d. 450

g. 8

b. 40

e. 1200

h. 32

2. Fill in the table. Use the value of 10% of each number to determine how much 5% and 20% will be. *Reminder: 5% of a number will be **half** of the value of 10% of that number. 20% of a number will be **double** the value of 10% of that number.*

	Original Amount	10% of Original Amount	5% of Original Amount	20% of Original Amount
Ex.	120	<b>12</b>	<b>6</b>	<b>24</b>
a.	40			
b.	100			
c.	80			
d.	30			
e.	260			
f.	5200			

3. Find 50% of each number. *Reminder: To find 50% of a number, divide that number by 2.*

Ex. 68

 **$68 \div 2 = 34$** 

c. 210

f. 2

a. 42

d. 58

g. 7

b. 30

e. 600

h. 5000

4. Combine your skills from Questions 1 – 3 to determine the following values.

**Ex.** 25% of 70

d. 60% of 18

$$10\% \text{ of } 70 = 7$$

$$20\% \text{ of } 70 = 14$$

$$5\% \text{ of } 70 = 3.5$$

$$20\% + 5\% = 25\%$$

$$14 + 3.5 = 17.5$$

$$\mathbf{25\% \text{ of } 70 = 17.5}$$

a. 25% of 30

e. 55% of 2000

b. 30% of 40

f. 60% of 550

c. 15% of 140

g. 45% of 90

5. Use cross-multiplication to determine each amount.

Ex. What is 30% of 36?

$$\frac{y}{36} = \frac{30}{100}$$

$$y \times 100 = 36 \times 30$$

$$y \times 100 = 1080$$

$$y = \frac{1080}{100}$$

$$y = 10.8$$

**30% of 36 is 10.8**

b. What is 42% of 50?

$$\frac{y}{50} = \frac{42}{100}$$

$$y \times 100 = \_ \times \_$$

$$y \times 100 =$$

$$y = \frac{\_}{100}$$

$$y =$$

a. What is 75% of 16?

$$\frac{y}{16} = \frac{75}{100}$$

$$y \times 100 = \_ \times \_$$

$$y \times 100 =$$

$$y = \frac{\_}{100}$$

$$y =$$

c. What is 85% of 200?

6. Follow the steps to determine the sale price of each item.

**Step 1:** Find the amount of the discount. (Original price  $\times$  % off)

**Step 2:** Find the sale price. (Original price  $-$  Amount of discount)

Ex. Original Price: \$39.00

Discount 15% off

$$\$39.00 \times 0.15 = \$5.85$$

$$\$39.00 - \$5.85 = \$33.15$$

b. Original Price: \$108.75

Discount 43% off

a. Original Price: \$16.00

Discount 28% off

c. Original Price: \$1459.99

Discount 9% off



7. Fill in the table. Reduce fractions to lowest terms.

	Percent	Decimal	Fraction
<b>Ex.</b>	<b>75%</b>	0.75	$\frac{75}{100} = \frac{3}{4}$
a.		0.09	
b.	65%		
c.			$\frac{1}{2}$
d.			$\frac{7}{20}$
e.	5%		
f.		0.02	

8. Solve the following problems.

- a. The price of one case of medicine is \$75.00. A pharmacy is ordering three cases and will receive a 12% discount. What is the amount of the discount? What is the cost for all three cases (excluding taxes)?
  
- b. At The Jean Warehouse the jeans you want to purchase are 20% off the original price of \$54.99. The same pair of jeans has the same price at Jean's World, but there you get \$15 off any pair of jeans. Where would you get the best deal on these jeans?

## 8.4 PERCENTAGE INCREASES

1. Calculate the price of each item after taxes. Use the following values for each tax: GST 5%, PST 7%.

**Ex.** Price: \$8.95 + GST & PST

$$0.05 + 0.07 = 0.12$$

$$\$8.95 \times 1.12 = \mathbf{\$10.02}$$

b. Price: \$230.50 + GST only

a. Price: \$22.45 + GST & PST

c. Price: \$1575.42 + GST & PST

2. In your own words, describe inflation.
3. The rate of inflation for this year is estimated to be 1.9%. If you are currently earning \$16.00 per hour, how much would you need to make next year to keep up with inflation?
4. Jon takes a taxi and the final charge is \$31.60. How much would he pay in total if he wanted to leave a 10% tip?
5. At restaurants in BC, only GST is added to food and non-alcoholic beverages. Fill in the missing information on the restaurant bill below, leaving a 16% tip. *Reminder: Tips are calculated on the total before taxes.*

Pasta Palace Restaurant			
Item	Quantity	Price	Amount
Spaghetti Special	2	\$13.99	\$27.98
Lasagna	1	\$19.99	\$19.99
Chef's Salad	1	\$14.99	\$14.99
Garlic Bread	2	\$3.99	a.
Soft Drinks	4	\$3.19	b.
Apple Pie	2	\$5.29	\$10.58
Cheesecake	2	c.	\$11.78
Subtotal			d.
GST			e.
Gratuity (Tip)			f.
<b>Total</b>			g.

8.5 COMPARING PRICES
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1. Convert each fraction to a decimal without a calculator.

Ex.  $\frac{1}{6} = 6 \overline{)1.00} = 0.16$

b.  $\frac{7}{8}$

d.  $\frac{3}{9}$

a.  $\frac{2}{5}$

c.  $\frac{3}{11}$

e.  $\frac{9}{20}$

2. Find the unit price of each item.

Ex: 6 dish sponges for \$9.88

$\$9.88 \div 6 = \$1.65$

**\$1.65 per sponge**

c. A dozen whole wheat buns for \$7.50



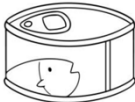
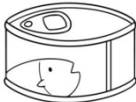
a. 24 rolls of toilet paper for \$16.48

d. 825 grams of almonds for \$23.41 (Find the price per 100g)

b. A box of 36 crackers for \$4.49

e. 2 litres of orange juice for \$6.99 (Find the price per 100 mL)

3. Calculate which item is the better buy based on unit price.

	Item A	Item A Unit Rate	Item B	Item B Unit Rate	Which is the better buy?
a.	 500 mL \$7.99		 750 mL \$10.99		
b.	 \$4.45 for 2		 \$6.89 for 3		

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## UNIT 8 – ANSWER KEY

### SECTION 8.1

1. Barter: a, e, f, h. Money: b, c, d, g
2. a. i. Extraction, ii. Production, iii. Distribution, iv. Consumption, v. Disposal  
b. Answers may vary. Example: i. Mining for metals, ii. Overseas factory production, iii. Boats and Trucks to deliver to big box stores, iv. Cell phone used by someone in Canada for 3 years, v. Some parts recycled, some parts sent to landfill
3. Multiple possible answers. Example: excessive debt, basing happiness on material possessions
4. a. Min. b. Con. c. Con. d. Min. e. Con. f. Min.

### SECTION 8.2

1. Need: b, c, e, f Want: a, d, g, h
2. 7 weeks
3. 3 months
4. Specific, Measurable, Attainable, Realistic, Timely
5. Answers will vary.
6. Answers will vary.
7. Answers will vary.

### SECTION 8.3

1. a. 16 b. 4 c. 9.4 d. 45 e. 120 f. 7.5 g. 0.8 h. 3.2
2. a. 4, 2, 8 b. 10, 5, 20 c. 8, 4, 16 d. 3, 1.5, 6 e. 26, 13, 52 f. 520, 260, 1040
3. a. 21 b. 15 c. 105 d. 29 e. 300 f. 1 g. 3.5 h. 2500
4. a. 7.5 b. 12 c. 21 d. 10.8 e. 1100 f. 330 g. 40.5
5. a. 12 b. 21 c. 170
6. a. \$11.52 b. \$61.99 c. \$1328.59

7. a.  $9\%, \frac{9}{100}$  b.  $0.65, \frac{13}{20}$  c.  $50\%, 0.5$  d.  $35\%, 0.35$  e.  $0.05, \frac{1}{20}$  f.  $2\%, \frac{1}{50}$
8. a. Discount: \$27, Cost: \$198 b. Jean's World (\$39.99)

## SECTION 8.4

1. a. \$25.14 b. \$242.03 c. \$1764.47
2. Answers may vary. Ex. Average rise in prices over a specific period of time.
3. \$16.30
4. \$34.76
5. a. \$7.98 b. \$12.76 c. \$5.89 d. \$106.06 e. \$5.30 f. \$16.97 g. \$128.33

## SECTION 8.5

1. a. 0.4 b. 0.875 c.  $0.\overline{27}$  d.  $0.\overline{3}$  e. 0.45
2. a. \$0.69/roll b. \$0.12/cracker c. \$0.63/bun d. \$2.84/100g e. \$0.35/100 mL
3. a. Item A: 1.6¢/mL OR \$1.60/100 mL, Item B: 1.5¢/mL OR \$1.47/100 mL Best buy: Item B  
b. Item A: \$2.23 each, Item B: \$2.30 each Best buy: Item A