Name:	Date:

- 1. Thomas is considering two positions
 - One is a full-time position as a web designer that pays a salary of pays an hourly wage of \$37.45. The job assumes four 11-hour days per week.
 - The final offer is for a sales representative that pays a commission. Sales representatives typically sell an average of \$110,000 per month in textbooks.

Federal Tax Brackets

lax Bracket	Single	Married Filing Jointly	Head of Household
10% Bracket	\$0 - \$8,700	\$0 - \$17,400	\$0 - \$12,400
15% Bracket	\$8,701 – \$35,350	\$17,40 1 - \$70,700	\$12,401 - \$47,350
25% Bracket	\$35,351 - \$85,650	\$70,701 – \$142,700	\$47,351 - \$122,300
28% Bracket	\$85,651-\$178,650	\$142,701 - \$217,450	\$122,301 - \$198,050
33% Bracket	\$178,651 - \$388,350	\$217,451 – \$388,350	\$198,051 - \$388,350
35% Bracket	\$388,350+	\$388,350+	\$388,350+

- Assume he lives in a state with 6.5% income tax.
- The Web Designer position includes four paid vacation days and three paid sick days per year, health insurance that costs 3.5% of after tax income, life insurance costing \$35 per month, and a retirement plan that costs 4.5% of after-tax income.
- The sales position has no paid vacation or sick days, paid health insurance, life insurance that costs 7% of after tax income, and a retirement plan costing \$500 per month.
- Assume she takes 10 vacation days and 5 sick days per year.

Job Summary Table

Row No.	Job		
1	Income Information:	37.45 per hour	5,7% OFF
2	Gross annual income	85,485.60	68,400
3	Process		-12
4	Gross monthly income	7140.47	5700

		,	15	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
5	Process	,065+,28=,3°	005+.25=.	51")
6	After-tax monthly income	4077,00	3904.5	
7	Vacation	6.11737.45 = 2471.7 ~ 205.98	1/z, 3904,5=1 0x,167,69	
8	Sick Leave	2-11-37-45 = \$23.9 = 66.46	5/20-3907,500 281.34	796.13
9	Health Insurance	3035 X4677 9103.70	40	
10	Life Insurance	5 35	773.32	
11	Retirement	210.47	\$500	
12	Monthly Take-home income	3993.19	2987,16	

2. Consider the following situation:

Isaac is considering whether to use a CD or savings account for his long term savings. He plans to invest \$600 initially. The CD pays 3.75% compound interest but the money cannot be touched for 8 years. The savings account pays 4% simple interest. Calculate how much money he will have in the account each year.

CD/Year	Beginning	Interest	Ending	Savings	Beginning	Interest	Ending
	Balance	Earned	Balance	Account/Year	Balance	Earned	Balance
1	400	77,5	6275	1	(¿QQ	24	1024
2	677.5	73.34	645.84	2	(024	LZY	6248_
3	645.84	29,22	470.00	3	1048	124_	(072
4	W70-0W	25.13	495.19	4	677	129	676
- 5	695-19	24.07	77124	5	720	29	744
6	721,00	27.05	748.31		444	24	768
7	746.31	28,00	796,37	7	<u> </u>	24_	816
8	776,37	79.11	905.48	8	<u> </u>	(-)	1869

Which type of account should he use for an emergency fund? Why?
$$SOMNOS - 2000 + SOM + COM + CO$$

5. For the function $FV = \frac{1500 \text{ (1.045)}^{\text{Y}}}{2500 \text{ (1.065)}^{\text{Y}}}$, give the following information.

a. The initial investment (present	b. The interest rate	c. The Future Value after 12 years
value) [500	4.5%	2543,82

6. Given the following table of an investment, answer the following questions.

Years	Money Earned	a. Give the regression equation for the given table	b. What is the interest rate?	c. How much will this investment be worth in 35 years?
0	400	00=400	, 0 ,	
1	420	On = On 1,05	7 /0	2206.41
2	441			
3	463.05			

LOCK @ investment practice sheet

AMDM: Investment Questions	
Name:	等等等
1. Michael wants to buy a home that costs \$120,000. In or 10% of the cost of the home saved for his deposit. How keeps	ong would it take him to save for his
deposit, if he is able to put aside \$500 per month gaining	3% interest per month?
FV=12,000 N=?	N = 24.7
PMT= 500 (N=8	\$ \sum_{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\\ \tint{\text{\text{\text{\texi}\tint{\text{\texit{\text{\texi}\text{\text{\texi}\tint{\text{\texi}\tint{\text{\texi}\tinz}\tex{\texititt{\text{\texi{\text{\texi}\texit{\texi{\texi{\tex{
I % = 3	& 2 years
P/Y=12	
O/1 = 12	
2. How much would Jessica need to save per month if she	wents to have \$2,000 in 7 months, if
she has her money in an account gaining 7% per month.	wants to have \$1,000 m / months, if
partition in the contract of t	
PMT = 4	199
= 7 V=3000 PV=0 PV=0 PM = 7 VA=17	71.19
91. 7°%	•
18 = 12 PM	•
14=17	
3 How much money would Jordan save in 9 months, if he	H^{∞} .
4.5% per month?	198.47
1 1 7 5	20,90
7 7 400 7 7 418 7 8 8	799.39
	568.84
4 456,47	
$\Lambda = 5 \cdot 1.977$	ons Qn= 400(1.045)
1 A How long would it take for Jordan to save \$2,5	1006
	uea s
4) On the day of Herbert's birth, a deposit of \$25,000 is n	
interest compounded quarterly. Determine how long the for the balance to reach \$100,000.	money will have to be in the account
(05)	711- 1100/S

5. Sandy wants to buy a car. If she can afford monthly payments of no more than \$300 and the interest rate is 3.5% financed for 5 years, how much can she afford to spend on a car?

云 1354.52

6. Stephanie wants to find the future value of an investment of \$4,000 that earns 5.65% compounded monthly for 25 years.

~14,370,48

7. Josh wants to have \$15,000 in 15 years after investing in an account that earns 2.5% compounded quarerly. What would his monthly payments be?

会202,03

8. Steven wants to invest \$1500 in an account that earns 3.24% interest, compounded monthly. How many years will it take for the account to have a value of \$8000.

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9. You think of a scenario of your own. Maybe something you are saving for? Make up the numbers or think about the project from earlier this week? What interest rates make sense etc.