

Please show your work for all questions.

Banking

1. On August 11 of last year, Jessie opened a savings account with a deposit of \$1785.32. The first page in her bank book is shown below.

	DATE	WITHDRAWAL	INTEREST	DEPOSITS	BALANCE
1	Aug 11			1785.32	1785.32
2	Sept 11			50.00	1835.32
3	Sept 24	100.00			1735.82
4	Sept 27		15.72		1751.04
5	Oct 29	150.00			1601.04
6	Nov 24	100.00			1501.04
7	Nov 26	100.00			1401.04
8	Dec 27		20.71		1421.75
9	Jan 17	420.00			1001.75
10	Jan 22	120.00			881.75

- a) After interest was added on Sept. 27, how much was in her account? _____
- b) After a withdrawal was made on Nov. 24, how much was in her account? _____
- c) How much money did she withdraw from her account in total? _____
(Show calculation below.)
- d) How much interest was credited to her account during the entire period? _____
(Show calculation below.)
- e) What was the highest balance Jessie had on her account? _____
2. a) Mark earns \$15.50 an hour. How much does he earn in an 8 hour shift?
- b) How much does he earn during a 40 hour work week?
- c) Mark gets paid biweekly. Calculate his gross income for one pay period.
- d) The deductions on Mark's pay are listed below. Calculate his net income.

CPP	\$ 54.72
EI	\$ 23.31
Federal Tax	\$108.65
Provincial Tax	\$ 90.50

Budgeting

3. Rena pays \$1256.78 per year for car insurance. She is paid biweekly. How much should she save from each pay check for her insurance?

4. Trevor's parents live in another province. He would like to visit them three months from now. The plane ticket will cost \$345.60, and he estimates he will need another \$250 for expenses during his trip. He is paid weekly. How much should he save from each pay for his trip?
5. Stephanie works part-time after school and on weekends at a café. Her monthly budget for February is shown below.

Income	
February 2 pay	\$312.61
February 16 pay	\$290.09
Expenses	
Savings for college	\$200.00
Room and board	\$160.00
Spending money	\$100.00
Clothes	\$95.00
Cell phone	\$20.00

- a) What is Stephanie's total income for the month?
- b) What are her total expenses?
- c) On March 1, Stephanie had \$2400 in her college account. She thinks she will need \$4000 by September. Is she on track to meet her goal? If yes, explain why. If no, suggest what she can do to meet her goal.

Interest

6. Calculate the future value of \$5000 invested at a simple interest rate of 2.5% for 4 years.
7. Calculate the **time** in years that it would take to earn \$245 interest on a \$1000 investment at a simple interest rate of 3.5%.
8. Tyler invests \$4000 at 3.2% with interest **compounded annually**. Calculate the value of his investment after 2 years.
9. Megan invested \$10 000 at 4% with interest **compounded monthly**. Determine the value of her investment after 3 years.