## Section 4.1 Exercises Part C

Find the following locations in the maps section of your Bible and Doctrine and Covenants using the Index of Place-Names (Gazeteer in older editions).

- 1. Bethlehem
- 2. Ephesus
- 3. Hebron
- 4. Mt. Sinai
- 5. Liberty, Missouri
- 6. Kirtland, Ohio

## Based on the chart:

7. In what year did the value first drop below 2500?

**8.** How much value was lost in the 7 years?

**9.** Which year had the biggest drop in value?



10. Chart the following table of growth of a savings account:

		0	0						
# of	0	1	2	3	4	5	6	7	8
years									
Amount	52	35	48	54	62	73	68	72	85

**11.** Use a spreadsheet to make a table of the growth of a savings account for 20 years that begins with \$200 and receives a \$50 deposit each month and grows at 6%. The table should show the yearly values at the end of each year.

**12.** Use the spreadsheet to make a graph of the 20-year table.

**13.** How much money was paid into the savings account over the 20 years? How much interest was earned?

14. How much interest is earned if the account grows at 9% instead of 6%?

## Graph the following points on a Cartesian coordinate system.

15.	(7,1)	16.	(13,-7)	17.	(0,4)
18.	(8,4)	19.	(-1,1)	20.	(-8,0)

**21.** Create a realistic savings plan for yourself. Make a table of the growth of your savings for 20 years. Create a graph of the table. Include it in your portfolio.

Answers:

- 1. On maps
- 2. On maps
- **3.** On maps
- 4. On maps
- 5. On maps
- 6. On maps
- 7.  $3^{rd}$  year
- 8. About \$2000
- 9. From the  $1^{st}$  to  $2^{nd}$  year
- 10.





- **11.** Answer on next page
- **12.** Answer on next page
- **13.** \$12,200; \$11,564.09
- **14.** \$22,396.17 interest for a total of \$34,596.17

t	r	n	Р	PMT	rate	nper	Amount
1	0.06	12	-200	-50	0.005	12	\$829.11
2	0.06	12	-200	-50	0.005	24	\$1,497.03
3	0.06	12	-200	-50	0.005	36	\$2,206.14
4	0.06	12	-200	-50	0.005	48	\$2,958.99
5	0.06	12	-200	-50	0.005	60	\$3,758.27
6	0.06	12	-200	-50	0.005	72	\$4,606.85
7	0.06	12	-200	-50	0.005	84	\$5,507.77
8	0.06	12	-200	-50	0.005	96	\$6,464.26
9	0.06	12	-200	-50	0.005	108	\$7,479.73
10	0.06	12	-200	-50	0.005	120	\$8,557.85
11	0.06	12	-200	-50	0.005	132	\$9,702.45
12	0.06	12	-200	-50	0.005	144	\$10,917.66
13	0.06	12	-200	-50	0.005	156	\$12,207.81
14	0.06	12	-200	-50	0.005	168	\$13,577.54
15	0.06	12	-200	-50	0.005	180	\$15,031.75
16	0.06	12	-200	-50	0.005	192	\$16,575.66
17	0.06	12	-200	-50	0.005	204	\$18,214.79
18	0.06	12	-200	-50	0.005	216	\$19,955.01
19	0.06	12	-200	-50	0.005	228	\$21,802.57
20	0.06	12	-200	-50	0.005	240	\$23,764.09

Answer to number 11:

Answer to number 12:

