

Name _____

11-1A Lesson Master

Questions on SPUR Objectives
See pages 708–711 for objectives.

SKILLS Objective A

In 1 and 2, simplify the expression.

1. $(8x^2 + 5x - 4) + (6x^2 + 2x - 3)$

2. $(5a^2 - 6a + 1) - (2a^2 - 3a - 2)$

USES Objective F

3. Arnie won the lottery and will receive a \$25,000 payment on June 1 each year for 4 years.

- a. Suppose Arnie invests all the prize money in an account that earns interest at a scale factor x . Complete the table to show how much Arnie would have on June 1 of each year. (The payments stop after 4 years but the money keeps earning interest.)

Year	Amount
1	25,000
2	$25,000x + 25,000$
3	$25,000x^2 + 25,000x + 25,000$
4	
5	
6	

- b. How much would Arnie have the sixth year if his interest rate was 5%? c. How much would he have the sixth year if he could find an investment earning 12%?

In 4–6, Amy and Anton have just graduated and are each saving money for a down payment on a house. They will each deposit their savings into a special account earning 5.5% interest compounded annually.

4. Fill in the spreadsheet.

	A	B	C	D	E
1	Year	Amy's Deposit	Amy's End of Year Balance	Anton's Deposit	Anton's End of Year Balance
2	1	0		4,000	
3	2	0		4,000	
4	3	0		4,000	
5	4	0		0	
6	5	0		0	
7	6	5,000		0	
8	7	5,000		0	
9	8	5,000		0	

5. What formula would be used to calculate the value in each cell?

- a. cell C9 _____ b. cell E9 _____

6. Who has more money at the end of 8 years? How much more? _____