





Describe each

pattern in words

1.  $-6 + 6 = 0$   $3.8 + 3.8 = 0$   $+ \frac{1}{2} = 0$

$12 + 0 = 12$

$-7 + 0 =$

$-7 \cdot 0.5 + 0 = 0.5$

3.  $-6.27 \cdot 1 = -6.27$   $\frac{1}{2} \cdot 1 = \frac{1}{2}$   $1 \cdot 2.2 = 2.2$

**Definitions**

Variable: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ Algebraic Expression:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## Activity Sheet 1 (cont.)

### STORM

time (in seconds)	expression	distance (miles)
5	$5/5$	
10	$10/5$	
15		
20		
25		
30		
t		

## Activity Sheet 2 Candy Store

Algebraic expression (for the candy store): \_\_\_\_\_

t= \_\_\_\_\_

j= \_\_\_\_\_

m= \_\_\_\_\_

c= \_\_\_\_\_

1. Write in your own words the meaning of this algebraic expression and what the cost of each item is.

2. How much money will you need to buy 1.25 pounds of chocolate, 1.75 pounds of taffy, 4.5 pounds of m&m's, and 3.5 pounds of jawbreakers? In what ways can you redistribute the amount of candy so that you spend less than \$50?

## Activity Sheet 3 Expressing the Pattern

Complete each table using a combination of variables and constants that describe the pattern.

Term	Expression
1	$6 * 1$
2	$6 * 2$
3	
4	
5	
n	

Term	Expression
1	$5 - 2$
2	$5 - 4$
3	$5 - 6$
4	
5	
n	

Term	Expression
1	$8 / (4 + 1)$
2	$8 / (4 + 2)$
3	
6	
8	
n	

Term	Expression
1	$1^2 + 5$
2	$2^2 + 5$
3	
6	
9	
n	

Term	Expression
1	$2 * 1 + 3$
2	$2 * 2 + 3$
5	$2 * 5 + 3$
7	
9	
n	

Create a pattern that describes your local sales tax and write an expression.

Term	Expression
1	$1 + 7$
2	$2 + 7$
5	
8	
9	
n	

Create your own pattern and description.