

Name \_\_\_\_\_ Date \_\_\_\_\_

### Functional Relationships (A.1.D.) Notes

Functional relationships can be represented in a variety of ways.

Method	Description	Example										
List	List the ordered pairs.	$\{(-3, -2), (-1, 2), (1, 6), (3, 10)\}$										
Table	Place the ordered pairs in a table.	<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>-3</td> <td>-2</td> </tr> <tr> <td>-1</td> <td>2</td> </tr> <tr> <td>1</td> <td>6</td> </tr> <tr> <td>3</td> <td>10</td> </tr> </tbody> </table>	x	y	-3	-2	-1	2	1	6	3	10
x	y											
-3	-2											
-1	2											
1	6											
3	10											
Mapping	Draw a picture that shows how the ordered pairs are formed.											
Verbal Description	Use words to describe the functional relationship.	The y-values for the set of points are 4 more than twice the corresponding x-values.										
Equation	Write an equation that describes the y-coordinate in terms of the x-coordinate.	$y = 2x + 4$										
Function Notation	Write a special type of equation that uses $f(x)$ to represent y.	$f(x) = 2x + 4$										

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Graph	Graph the ordered pairs.	