

Name _____

Period _____ #147

Linear: Context, Table, Graph, and Equation

Directions: In each of the following problems, you are given one of the representations of a linear function. Complete the remaining 3 representations.

1. *Sample*

Context

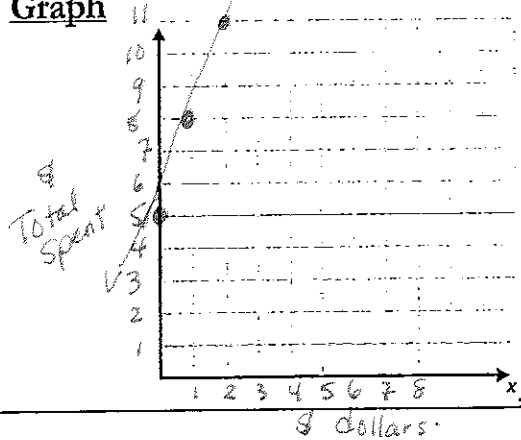
You and your friends go to the state fair. It costs \$5 to get into the fair and \$3 each time you go on a ride.

$$y = 3x + 5$$

Table

x	y
0	5
1	8
2	11
3	14
4	17
5	20

Graph



Equation

$$y = 3x + 5$$

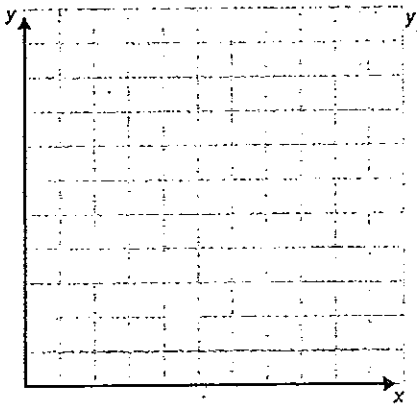
2.

Context

Table

Time (hours)	Cost (dollars)
0	7
1	9
2	11
3	13
4	15
5	17

Graph



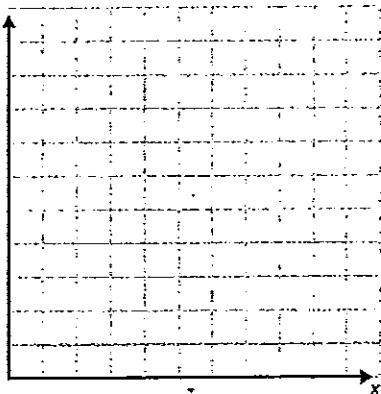
Equation

3.

Context

Table

Graph



Equation

$$y = 3x + 15$$

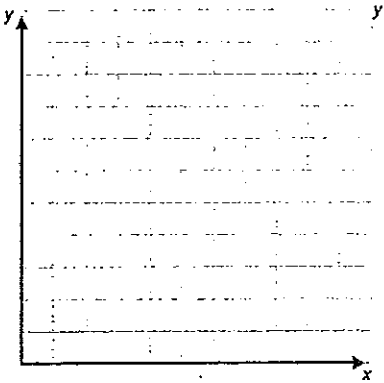
4.

Context

There are 300 fish in a pond. A crocodile is loose in the pond and is eating the fish. Each day the crocodile eats 15 fish.

Table

Graph



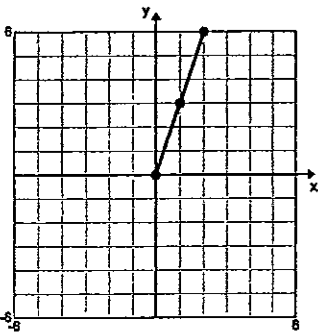
Equation

5.

Context

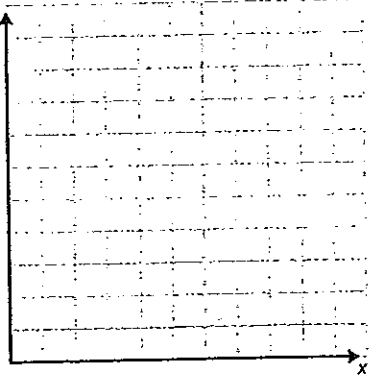
Table

Graph

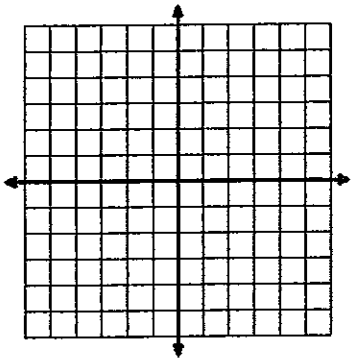


Equation

6.

<u>Context</u>	<u>Table</u> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Time (hours)</th> <th style="padding: 5px;">Water (gallons)</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0</td> <td style="padding: 5px;">1000</td> </tr> <tr> <td style="padding: 5px;">1</td> <td style="padding: 5px;">800</td> </tr> <tr> <td style="padding: 5px;">2</td> <td style="padding: 5px;">600</td> </tr> <tr> <td style="padding: 5px;">3</td> <td style="padding: 5px;">400</td> </tr> <tr> <td style="padding: 5px;"> </td> <td style="padding: 5px;"> </td> </tr> <tr> <td style="padding: 5px;"> </td> <td style="padding: 5px;"> </td> </tr> </tbody> </table>	Time (hours)	Water (gallons)	0	1000	1	800	2	600	3	400				
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<u>Graph</u> 	<u>Equation</u>														

7.

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<u>Graph</u> 	<u>Equation</u> $y = 30 - 5x$																				