

11- Creating Function Rules from Stories and Tables

<i>Story</i>	<i>Rate of Change (m)</i>	<i>Initial Value (b)</i>	<i>Function Rule</i>
Mary Jane can skip her jump rope 35 times in 5 minutes. Write a function rule to describe how many times she can skip her jump rope after x minutes.	1. _____	2. _____	3. _____
Geri has \$78. She earns \$54 every six hours. Write a function rule to describe her total money in x hours.	4. _____	5. _____	6. _____
Susan was burning a candle. The candle started 10 inches high. After 4 hours of burning, the candle was 6 inches high. Write a function rule to describe the height of the candle after x hours.	7. _____	8. _____	9. _____
Joe was reading an 870 page book. He read 45 pages every hour. How many pages will he have left to read after x hours?	10. _____	11. _____	12. _____
Louie rides her bike 75 miles every 5 days. Write a function rule to describe how many miles she has ridden after x days.	13. _____	14. _____	15. _____
Vivi can download 3 songs every 5 minutes. Write a function rule to describe how many songs she will have downloaded after x minutes.	16. _____	17. _____	18. _____
Everli runs a waffle stand. She spends \$100 on supplies but earns \$6 per waffles sold. Write a function rule to describe Everli's profits after she sells x waffles.	19. _____	20. _____	21. _____
Judy takes a 45-inch ice sculpture out of the freezer. After 3 hours is has shrunk to a height of 39-inches. Write a function rule to describe the height of the sculpture after x hours.	22. _____	23. _____	24. _____

<i>Table</i>	<i>Slope (m)</i>	<i>Y-Intercept (0, b)</i>	<i>Function Rule</i>										
<table border="1"> <thead> <tr> <th><i>x</i></th> <th><i>y</i></th> </tr> </thead> <tbody> <tr> <td>-3</td> <td>3</td> </tr> <tr> <td>0</td> <td>0</td> </tr> <tr> <td>2</td> <td>-2</td> </tr> <tr> <td>5</td> <td>-5</td> </tr> </tbody> </table>	<i>x</i>	<i>y</i>	-3	3	0	0	2	-2	5	-5	25. _____	26. (0, _____)	27. _____
<i>x</i>	<i>y</i>												
-3	3												
0	0												
2	-2												
5	-5												
<table border="1"> <thead> <tr> <th><i>x</i></th> <th><i>y</i></th> </tr> </thead> <tbody> <tr> <td>-6</td> <td>3</td> </tr> <tr> <td>-1</td> <td>3</td> </tr> <tr> <td>3</td> <td>3</td> </tr> <tr> <td>7</td> <td>3</td> </tr> </tbody> </table>	<i>x</i>	<i>y</i>	-6	3	-1	3	3	3	7	3	28. _____	29. (0, _____)	30. _____
<i>x</i>	<i>y</i>												
-6	3												
-1	3												
3	3												
7	3												
<table border="1"> <thead> <tr> <th><i>x</i></th> <th><i>y</i></th> </tr> </thead> <tbody> <tr> <td>-4</td> <td>10</td> </tr> <tr> <td>-2</td> <td>4</td> </tr> <tr> <td>2</td> <td>-8</td> </tr> <tr> <td>4</td> <td>-14</td> </tr> </tbody> </table>	<i>x</i>	<i>y</i>	-4	10	-2	4	2	-8	4	-14	31. _____	32. (0, _____)	33. _____
<i>x</i>	<i>y</i>												
-4	10												
-2	4												
2	-8												
4	-14												
<table border="1"> <thead> <tr> <th><i>x</i></th> <th><i>y</i></th> </tr> </thead> <tbody> <tr> <td>-5</td> <td>2</td> </tr> <tr> <td>-5</td> <td>5</td> </tr> <tr> <td>-5</td> <td>9</td> </tr> </tbody> </table>	<i>x</i>	<i>y</i>	-5	2	-5	5	-5	9	34. _____	35. (0, _____)	36. _____		
<i>x</i>	<i>y</i>												
-5	2												
-5	5												
-5	9												
<table border="1"> <thead> <tr> <th><i>x</i></th> <th><i>y</i></th> </tr> </thead> <tbody> <tr> <td>-10</td> <td>14</td> </tr> <tr> <td>-4</td> <td>5</td> </tr> <tr> <td>0</td> <td>-1</td> </tr> <tr> <td>2</td> <td>-4</td> </tr> </tbody> </table>	<i>x</i>	<i>y</i>	-10	14	-4	5	0	-1	2	-4	37. _____	38. (0, _____)	39. _____
<i>x</i>	<i>y</i>												
-10	14												
-4	5												
0	-1												
2	-4												
<table border="1"> <thead> <tr> <th><i>x</i></th> <th><i>y</i></th> </tr> </thead> <tbody> <tr> <td>-4</td> <td>5</td> </tr> <tr> <td>-3</td> <td>3</td> </tr> <tr> <td>-2</td> <td>1</td> </tr> <tr> <td>-1</td> <td>-1</td> </tr> </tbody> </table>	<i>x</i>	<i>y</i>	-4	5	-3	3	-2	1	-1	-1	40. _____	41. (0, _____)	42. _____
<i>x</i>	<i>y</i>												
-4	5												
-3	3												
-2	1												
-1	-1												
<table border="1"> <thead> <tr> <th><i>x</i></th> <th><i>y</i></th> </tr> </thead> <tbody> <tr> <td>4</td> <td>-19</td> </tr> <tr> <td>4</td> <td>-5</td> </tr> <tr> <td>4</td> <td>0</td> </tr> <tr> <td>4</td> <td>3</td> </tr> </tbody> </table>	<i>x</i>	<i>y</i>	4	-19	4	-5	4	0	4	3	43. _____	44. (0, _____)	45. _____
<i>x</i>	<i>y</i>												
4	-19												
4	-5												
4	0												
4	3												