

Names of Group _____

Functions and Graphs Group Project

| In (x) | Out (y) |
|--------|---------|
| | |
| | |
| | |
| | |
| | |

Rule: _____

Examples: (At least 3)

1.)

2.)

3.)

4.)

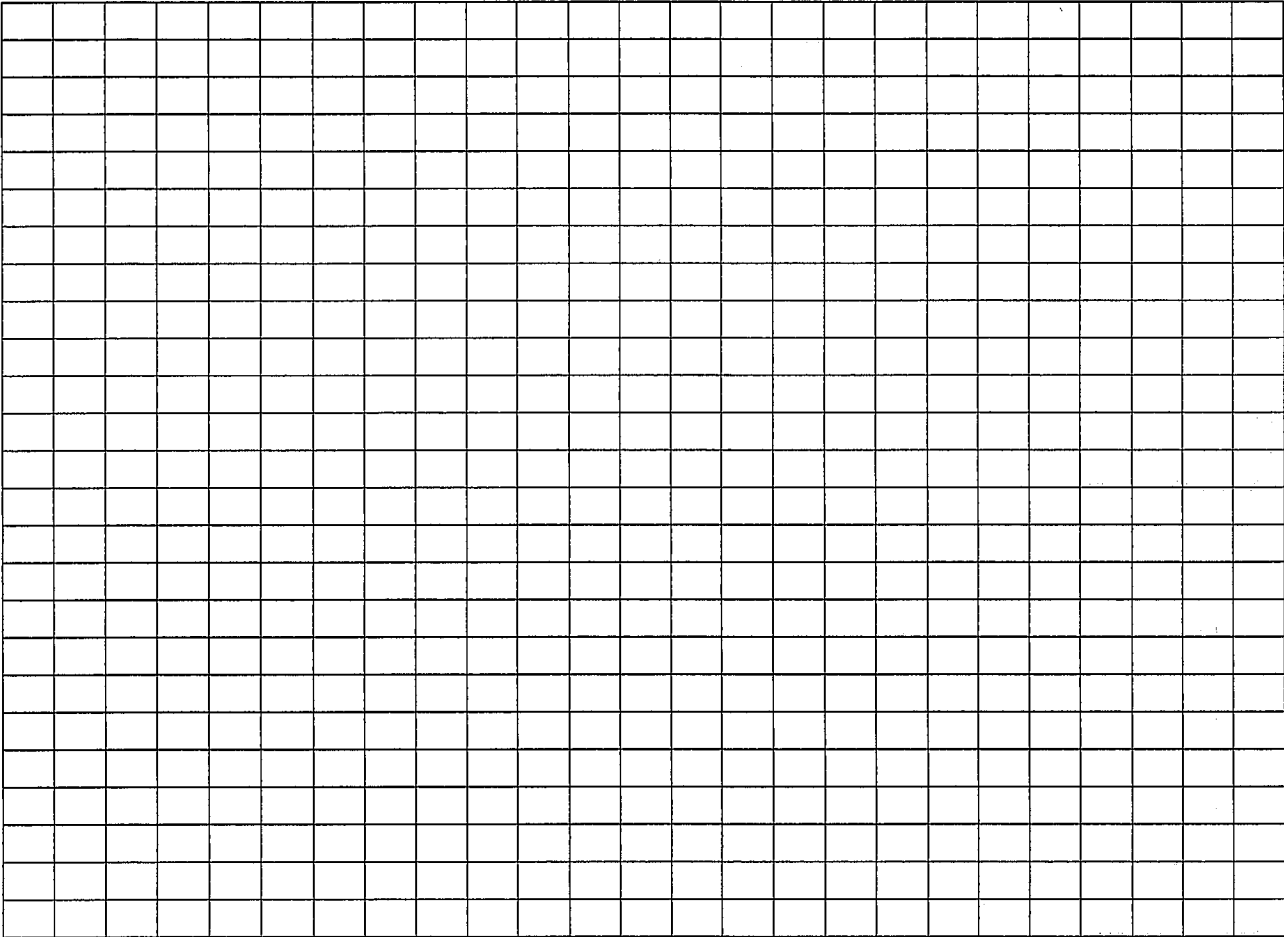
Equation: _____

Story Problem:

Independent Variable: _____

Dependent Variable: _____

Graph your Equation:



Title of Project: (Based off story problem)

Ins and Outs of Functions Cards

| <p>#1</p> <table border="1" style="display: inline-table; border-collapse: collapse; margin-right: 10px;"> <thead> <tr> <th>In (x)</th> <th>Out (y)</th> </tr> </thead> <tbody> <tr><td>1</td><td>4</td></tr> <tr><td>2</td><td>8</td></tr> <tr><td>3</td><td>12</td></tr> <tr><td>4</td><td>16</td></tr> <tr><td>5</td><td>20</td></tr> </tbody> </table> <ol style="list-style-type: none"> 1. What's the rule? 2. What are three more examples? 3. What's the equation? | In (x) | Out (y) | 1 | 4 | 2 | 8 | 3 | 12 | 4 | 16 | 5 | 20 | <p>#5</p> <table border="1" style="display: inline-table; border-collapse: collapse; margin-right: 10px;"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>10</td><td>5</td></tr> <tr><td>12</td><td>6</td></tr> <tr><td>14</td><td>7</td></tr> <tr><td>16</td><td>8</td></tr> <tr><td>18</td><td>9</td></tr> </tbody> </table> <ol style="list-style-type: none"> 1. What's the rule? 2. What are three more examples? 3. What's the equation? | x | y | 10 | 5 | 12 | 6 | 14 | 7 | 16 | 8 | 18 | 9 | | |
|---|---------|---------|---|----|---|-----|---|-----|---|-----|---|-----|--|---|---|----|---|----|----|----|----|----|----|----|----|---|-----|
| In (x) | Out (y) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>#2</p> <table border="1" style="display: inline-table; border-collapse: collapse; margin-right: 10px;"> <thead> <tr> <th>In (x)</th> <th>Out (y)</th> </tr> </thead> <tbody> <tr><td>1</td><td>11</td></tr> <tr><td>2</td><td>12</td></tr> <tr><td>3</td><td>13</td></tr> <tr><td>4</td><td>14</td></tr> <tr><td>5</td><td>15</td></tr> </tbody> </table> <ol style="list-style-type: none"> 1. What's the rule? 2. What are three more examples? 3. What's the equation? | In (x) | Out (y) | 1 | 11 | 2 | 12 | 3 | 13 | 4 | 14 | 5 | 15 | <p>#6</p> <table border="1" style="display: inline-table; border-collapse: collapse; margin-right: 10px;"> <thead> <tr> <th>m</th> <th>a</th> </tr> </thead> <tbody> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>9</td></tr> <tr><td>3</td><td>15</td></tr> <tr><td>4</td><td>21</td></tr> <tr><td>5</td><td>27</td></tr> </tbody> </table> <ol style="list-style-type: none"> 1. What's the rule? 2. What are three more examples? 3. What's the equation? | m | a | 1 | 3 | 2 | 9 | 3 | 15 | 4 | 21 | 5 | 27 | | |
| In (x) | Out (y) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| m | a | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>#3</p> <table border="1" style="display: inline-table; border-collapse: collapse; margin-right: 10px;"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>1</td><td>50</td></tr> <tr><td>2</td><td>100</td></tr> <tr><td>3</td><td>150</td></tr> <tr><td>4</td><td>200</td></tr> <tr><td>5</td><td>250</td></tr> </tbody> </table> <ol style="list-style-type: none"> 1. What's the rule? 2. What are three more examples? 3. What's the equation? | x | y | 1 | 50 | 2 | 100 | 3 | 150 | 4 | 200 | 5 | 250 | <p>#7</p> <table border="1" style="display: inline-table; border-collapse: collapse; margin-right: 10px;"> <thead> <tr> <th>j</th> <th>k</th> </tr> </thead> <tbody> <tr><td>1</td><td>9</td></tr> <tr><td>3</td><td>13</td></tr> <tr><td>5</td><td>17</td></tr> <tr><td>7</td><td>21</td></tr> <tr><td>10</td><td>27</td></tr> </tbody> </table> <ol style="list-style-type: none"> 1. What's the rule? 2. What are three more examples? 3. What's the equation? | j | k | 1 | 9 | 3 | 13 | 5 | 17 | 7 | 21 | 10 | 27 | | |
| x | y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 150 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| j | k | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>#4</p> <table border="1" style="display: inline-table; border-collapse: collapse; margin-right: 10px;"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>1</td><td>0</td></tr> <tr><td>2</td><td>1</td></tr> <tr><td>3</td><td>2</td></tr> <tr><td>4</td><td>3</td></tr> <tr><td>5</td><td>4</td></tr> <tr><td>6</td><td>5</td></tr> </tbody> </table> <ol style="list-style-type: none"> 1. What's the rule? 2. What are three more examples? 3. What's the equation? | x | y | 1 | 0 | 2 | 1 | 3 | 2 | 4 | 3 | 5 | 4 | 6 | 5 | <p>#8</p> <table border="1" style="display: inline-table; border-collapse: collapse; margin-right: 10px;"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr><td>1</td><td>22</td></tr> <tr><td>2</td><td>44</td></tr> <tr><td>3</td><td>66</td></tr> <tr><td>4</td><td>88</td></tr> <tr><td>5</td><td>110</td></tr> </tbody> </table> <ol style="list-style-type: none"> 1. What's the rule? 2. What are three more examples? 3. What's the equation? | x | y | 1 | 22 | 2 | 44 | 3 | 66 | 4 | 88 | 5 | 110 |
| x | y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | y | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 44 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Ins and Outs of Functions Cards

#9

| c | d |
|---|-----|
| 1 | 37 |
| 2 | 67 |
| 3 | 97 |
| 4 | 127 |
| 9 | 277 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

#13

| a | r |
|---|----|
| 1 | 9 |
| 2 | 20 |
| 3 | 31 |
| 4 | 42 |
| 5 | 53 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

#10

| k | p |
|---|----|
| 1 | 10 |
| 2 | 18 |
| 3 | 26 |
| 4 | 34 |
| 5 | 42 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

#14

| y | x |
|---|----|
| 1 | 11 |
| 2 | 23 |
| 3 | 35 |
| 4 | 47 |
| 8 | 95 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

#11

| r | e |
|---|----|
| 1 | 9 |
| 2 | 12 |
| 3 | 15 |
| 4 | 18 |
| 5 | 21 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

#15

| a | b |
|-----|-----|
| 2 | 5 |
| 4 | 10 |
| 6 | 15 |
| 8 | 20 |
| 12 | 30 |
| 300 | 750 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

#12

| x | y |
|---|----|
| 1 | -1 |
| 2 | 0 |
| 3 | 1 |
| 4 | 2 |
| 5 | 3 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

#16

| x | y |
|-----|-----|
| 1.2 | 2.4 |
| 1.4 | 2.8 |
| 1.5 | 3.0 |
| 1.8 | 3.6 |
| 2.0 | 4.0 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

Ins and Outs of Functions Cards

#17

| x | y |
|----|----|
| 6 | 7 |
| 21 | 11 |
| 30 | 14 |
| 36 | 16 |
| 60 | 24 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

#18

| m | n |
|----|----|
| 8 | -2 |
| 12 | -1 |
| 16 | 0 |
| 24 | 2 |
| 36 | 5 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

#19

| x | y |
|---|-----|
| 0 | 0 |
| 3 | 27 |
| 5 | 125 |
| 6 | 216 |
| 1 | 1 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

#20

| f | a |
|-------|---------|
| $1/6$ | $1/216$ |
| $1/4$ | $1/64$ |
| $1/3$ | $1/27$ |
| $1/2$ | $1/8$ |
| 1 | 3 |

1. What's the rule?
2. What are three more examples?
3. What's the equation?

