2016 Mathematics Standards of Learning

Algebra Readiness Formative Assessment

# 7.10c

1. Maria has 3 ceramic cats. She plans to buy some more. Write an equation in the form of *y* = *x* + *b*, *b*≠ 0 that could represent the total number of cats, when given the number of new cats.
2. The table below shows the relationship between *x* and *y*.

| ***x*** | ***y*** |
| --- | --- |
| -2 | -6 |
| -1 | -5 |
| 1 | -3 |
| 2 | -2 |

What is the y-intercept for this relationship?

1. The table below shows the relationship between *x* and *y*.

| ***x*** | **0** | **4** | **12** |
| --- | --- | --- | --- |
| ***y*** | **6** | **10** | **18** |

1. Create a verbal description to a practical problem that represents the relationship between x and y
2. What is the y- intercept?
3. Write an equation in the form of *y* = *x* + *b*, *b*≠ 0
4. The table shows the relationship between Ky’s age and Lu’s age.

| **Lu’s Age** | **1** | **4** | **10** |
| --- | --- | --- | --- |
| **Ky’s Age** | **8** | **11** | **17** |

Which equation could be used to determine Ky’s age, when given Lu’s age.

1. 
2. 
3. 
4. 
5. The table below shows the relationship between *x* and *y*.

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

Which could be used to represent the relationship between *x* and *y*?

1. 
2. 
3. 
4. 

Virginia Department of Education 2018