2016 Mathematics Standards of Learning

Algebra Readiness Formative Assessment

7.1a

1. Use your knowledge of powers of ten to complete the table below.

| Exponential Form | Expanded Form | Fraction Form |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

1. Mrs. Austin asked students to complete the following table for homework. When she checked Jacob’s homework, Mrs. Austin noticed that he wrote the incorrect fraction for each power of ten.

| Exponential Form | Fraction Form | Decimal Form |
| --- | --- | --- |
|  |  | 0.00001 |
|  |  | 0.0001 |
|  |  | 0.001 |
|  |  | 0.01 |
|  |  | 0.01 |

Write the correct fractions on the table and a short explanation of some patterns or general rules Jacob can use to determine the fraction form of powers of ten in the future.

1. Identify each statement that is equivalent to 

| 1,000 |  | -3,000 | 0.001 |
| --- | --- | --- | --- |
|  | -0.003 |  |  |

1. Which is equivalent to?
2.  and -0.00005
3.  and 0.00005
4.  and -0.00001
5.  and 0.00001
6. Which of the following is a true statement?
7. 
8. 
9. 
10. 

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