## Unit 3 Lesson 1: Properties of Exponents

### 1 Which One Doesn’t Belong: Exponents and Equations (Warm up)

#### Student Task Statement

A.

B.

C.

D.

### 2 Name That Power (Optional)

#### Student Task Statement

Find the value of each variable that makes the equation true. Be prepared to explain your reasoning.

### 3 The Power of Zero (Optional)

#### Student Task Statement

1. Use exponent rules to write each expression as a single power of 2. Find the value of the expression. Record these in the table. The first row is done for you.

| * expression | * power of 2 | * value |
| --- | --- | --- |
|  |  | * 16 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

1. What is the value of ?
2. What is the value of ?
3. What is the value of ?

### 4 Matching Exponent Expressions (Optional)

#### Student Task Statement

Sort expressions that are equal into groups. Some expressions may not have a match, and some may have more than one match. Be prepared to explain your reasoning.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
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