Exponents Handout

First complete the various powers of two. Then go through the worksheet and complete the following problems. Then use them to create a general rule. Work first WITHOUT A CALCULATOR!

20= 21= 22= 23= 24= 25= 26=

Product Property of Exponents:

1. = 2. = 3. = 4. =

 **General Rule:** =

Quotient Property of Exponents:

1. = 2. = 3. = 4. =

 **General Rule:** =

Power of a Power Property:

1. = 2. = 3. = 4. =

 **General Rule:** =

Power of a Quotient Property:

1. = 2. = 3. = 4. =

 **General Rule:** =

Property of Negative Exponents:

1. = 2. = 3. = 4. 

 **General Rule:** =

**Law of Exponents**

|  |  |  |
| --- | --- | --- |
| Law | Example | Description |
| am + an |  |  |
| aman |  |  |
| (am)n |  |  |
| (ab)n |  |  |
| (a)-1 |  |  |
| (a)-n |  |  |