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| **MULTIPLICATION** | **DIVISION** |

|  |  |
| --- | --- |
| **POWER OF A POWER** | **PRODUCT RULE** |

**Handling Coefficients:** *Simplify the following using exponent rules:*

|  |  |
| --- | --- |
| Example 1: | Example 2: |
| Example 3: | Example 4: |
| Example 5: | Example 6:  |

**Exponent Rules Practice**

Simplify each using the exponent rules. Leave your answers in exponential form.

|  |  |  |
| --- | --- | --- |
| a.  | b. | c.  |
| d.  | e.  | f.  |
| g.  | h.  | i.  |
| j.  | k.  | l.  |
| m.  | n.  | o.  |
| p.  | q.  | r.  |
| ANSWERS: a. 610, b. 92, c. 512, d. 313, e. 43, f. 1015, g. (-5)4, h. (-11)3, i. p66, j. (-2)11, k. (-1)4, l. 73, m. 220, n. 84, o. 52, p. -6a3b4, q. 5x3, r. -1a2b2 |