Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

**10.7A NOTES – Multiplying and Dividing In Scientific Notation**

Objective: Apply knowledge about power rules to multiplying & dividing numbers in scientific notation.

CCSS: 8.EE.4

HW: (10.7A) p. 452 #5, 6, 16 – 23 all.

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| Lesson Launch: 1. 2 ∙ 3 ∙ 104 ∙ 102 2) $\frac{36}{12}$ $∙ \frac{10^{4}}{10^{-3}}$
 |

FIND THE FOLLOWING PRODUCTS. WRITE YOUR ANSWERS IN SCIENTIFIC NOTATION.

WATCH: <https://learnzillion.com/lesson_plans/6820-multiply-numbers-in-scientific-notation>

COPY THE EXAMPLE PROBLEMS FROM THE VIDEO:

|  |  |
| --- | --- |
| 1. (2 x 104)(3 x 102)
 | 1. (7 x 104)(9 x 105)
 |

WATCH video in Big Ideas Math 10.7, Example 2. COPY THE EXAMPLE PROBLEM FROM THE VIDEO

|  |
| --- |
|  (2 x 10-4)(6 x 10-3) |

On Your Own. Find the product. Write your answer in scientific notation.

|  |  |  |
| --- | --- | --- |
| 4a. (7 x 102)(3 x 105) | 4b. (3 x 10-5)(5 x 10-6) | \*\*3. 6 x (8 x 10-5) |

**BACK 🡪**

Example 3 (p. 451)

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| FIND THE QUOTIENT (1.5 x 10-8) ÷ (6 x 107). Write your answer in scientific notation. |

Watch and copy video 10.7, Example 3 in BIM

|  |
| --- |
| FIND THE QUOTIENT $\frac{5.3 x 10^{8}}{4 x 10^{-3}}$. Write your answer in scientific notation. |

 Find the quotient. Write your answer in scientific notation.

|  |  |  |
| --- | --- | --- |
| 5b. $\frac{3.6 x 10^{12}}{7.2 x 10^{8}}$ | 6. (1.5 x 10-3) ÷ (7.5 x 102) | \*\*5. (9.2 x 1012) ÷ 4.6 |