

Scientific Notation Square Puzzle

Preparation: Copy the following master on cardstock, laminate and cut apart.

Directions:

Divide students into pairs or small groups. Each pair or small group will need a puzzle set. Students need to reassemble the 16 small squares to make a larger square. Where edges touch, an integer computation problem will match its solution. Students should work in groups of two or three for this activity. This will allow students to discuss strategies and reveal common mistakes.

Modifications: Some of the numbers on the edges may be removed to help identify the outer edges.

The blackline master is the key.

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6.1	780	6.1 x 10 ²	101 x 10 ⁹
24.0	0.78	7.8 x 10 ¹	1.7 x 10 ⁻¹
0.0023	2.3 x 10 ⁻³	2.3 x 10 ⁻²	4.2 x 10 ¹
4.5	1.7 x 10 ³	1.7 x 10 ²	0.01
3.5 x 10 ²	4.2 x 10 ⁰	4.2 x 10 ⁴	0.00023
350	0.078	0.078	0.00023
61,000	0.1	0.1	7.8 x 10 ⁰
170	3.5 x 10 ³	3.5 x 10 ³	7.8 x 10 ⁰
201 x 7.1	0.050	0.050	350,000
1 x 10 ⁻¹	0.023	0.023	350,000
4.5 x 10 ¹	45	45	7.8 x 10 ⁻²
6.1 x 10 ³	0.0045	0.0045	1 x 10 ⁻⁴
7,800	0.0017	0.0017	0.0001
	2.3 x 10 ⁻¹	2.3 x 10 ⁻¹	0.0001