

Grade 8 number and place value test

NAME	DATE	SCORE
		/ 12

Answer each question. Show your work.

1 1000 = ?	2 Write 9×10^{10} in standard form.
3 Write 6,800,000 in scientific notation.	4 Write $(10^2 \times 10^2)^3 \div 10^2$ as a single power.
5 Write 0.0000092 in scientific notation.	6 Write $4^2 \div 4^3$ as a single power.
7 Write $3^2 \times 3^2$ as a single power.	8 How many 10s are multiplied together in $(10^2)^2$?
9 Find $(1 \times 10^2) \times (8 \times 10^2)$. Write the answer in scientific notation.	10 Find $(1.12 \times 10^3) \div (8 \times 10^1)$. Write the answer in scientific notation.
11 What fraction with no exponent is equal to 4^3?	12 Which sign goes in the box: 4×10^2 6.8×10^2? ☐ < ☐ >

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1	10	2	0.000009	3	6.8×10^6
4	10^{12}	5	9.2×10^{-6}	6	4^1
7	3^4	8	20	9	8×10^{13}
10	1.4×10^3	11	$\frac{1}{64}$	12	>