



Scientific notation

GRADE 8 MATH

Name _____

Date _____

Leave every answer in proper scientific notation.

WORKED EXAMPLE

One non-zero digit before the point. Multiply → add powers. Add → powers unchanged (if they match). Times as much → divide.

1. Write 91 000 and 0.0004 in scientific notation.

FLUENCY

Show your thinking

Answer

2. Write 5×10^4 as an ordinary number.

FLUENCY

Show your thinking

Answer

3. Write 8×10^{-3} as an ordinary number.

FLUENCY

Show your thinking

Answer

4. Work out $(4 \times 10^5) \times (2 \times 10^2)$.

APPLICATION

Show your thinking

Answer

5. Work out $(9 \times 10^7) \div (3 \times 10^4)$.

APPLICATION

Show your thinking

Answer

6. Work out $6 \times 10^4 + 5 \times 10^4$. Give your answer in proper form.

APPLICATION

Show your thinking

Answer

7. Rewrite 250×10^6 in proper scientific notation.

APPLICATION

Show your thinking

Answer

8. Which is bigger, 3×10^{-2} or 8×10^{-3} ? Explain.

REASONING

Show your thinking

Answer

9. Omar writes $2 \times 10^4 + 3 \times 10^4 = 5 \times 10^8$. Explain his error.

REASONING

Show your thinking

Answer