

Scientific Notation - Standard

Mixed: ES1

Example: 1

Write 3.25×10^2 in standard notation.

Here the exponent is 2. We should move the decimal point 2 places to the right.

$$3 \overbrace{.25}^{\curvearrowright} \rightarrow 325$$

$$3.25 \times 10^2 = 325$$

Example: 2

Write 8.76×10^{-2} in standard notation.

Here the exponent is -2. We should move the decimal point 2 places to the left.

$$0 \overbrace{0}^{\curvearrowleft} 8.76 \rightarrow 0.0876$$

$$8.76 \times 10^{-2} = 0.0876$$

Express each number in standard notation.

1) $9.63 \times 10^{-3} =$ _____

2) $5.1146 \times 10^3 =$ _____

3) $3.042 \times 10^2 =$ _____

4) $7.259 \times 10^4 =$ _____

5) $9.105 \times 10^{-2} =$ _____

6) $6.5 \times 10^{-5} =$ _____

7) $6.1 \times 10^4 =$ _____

8) $9.8 \times 10^{-1} =$ _____

9) $2.9854 \times 10^{-1} =$ _____

10) $8.432 \times 10^4 =$ _____

11) $1.05 \times 10^2 =$ _____

12) $2.8502 \times 10^{-3} =$ _____

13) $4.172 \times 10^{-4} =$ _____

14) $9.7 \times 10^5 =$ _____

Name:

10/9 HW

★ Choose 6 ★
Score: _____**Scientific Notation**

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Example: 1

Write 6, 224 in scientific notation.

We should move the decimal point 3 places to the left. So, the exponent will be 3.

$$6,224 = 6.224 \times 10^3$$

Example: 2

Write 0.0087 in scientific notation.

We should move the decimal point 3 places to the right. So, the exponent will be -3.

$$0.0087 = 8.7 \times 10^{-3}$$

Express each number in scientific notation.

1) 0.0259 = _____

2) 902 = _____

3) 5,5820 = _____

4) 0.315 = _____

5) 0.00973 = _____

6) 1,0006 = _____

7) 856 = _____

8) 0.2058 = _____

9) 0.00072 = _____

10) 5,008 = _____

11) 0.001216 = _____

12) 0.00145 = _____

13) 7,5919 = _____

14) 0.12 = _____