

Scientific Notation

Mixed: ES1

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) 55, 820 = _____

4) 0.315 = _____

5) 0.00973 = _____

6) 10, 006 = _____

7) 856 = _____

8) 0.2058 = _____

9) 0.00072 = _____

10) 5, 008 = _____

11) 0.001216 = _____

12) 0.00145 = _____

13) 75, 919 = _____

14) 0.12 = _____

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Example: 1

Write 6, 224 in scientific notation.

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

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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) $0.0259 = 2.59 \times 10^{-2}$

2) $902 = 9.02 \times 10^2$

3) $55, 820 = 5.582 \times 10^4$

4) $0.315 = 3.15 \times 10^{-1}$

5) $0.00973 = 9.73 \times 10^{-3}$

6) $10, 006 = 1.0006 \times 10^4$

7) $856 = 8.56 \times 10^2$

8) $0.2058 = 2.058 \times 10^{-1}$

9) $0.00072 = 7.2 \times 10^{-4}$

10) $5, 008 = 5.008 \times 10^3$

11) $0.001216 = 1.216 \times 10^{-3}$

12) $0.00145 = 1.45 \times 10^{-3}$

13) $75, 919 = 7.5919 \times 10^4$

14) $0.12 = 1.2 \times 10^{-1}$