

Scientific Notation

Only 1 number can be in front of the decimal,
move the decimal around until that's true.

Example: 1

Write 6,224 in scientific notation.

6 2 2 4

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.

0 0 0 8 7

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 by putting the decimal in the correct place and adding the right exponent to the 10.

1) $0.0259 = 2.59 \times 10^{-2}$

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

3) $55,820.0 = 5.582 \times 10^4$

4) $0.0315 = 3.15 \times 10^{-2}$

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

6) $1,000.6 = 1.0006 \times 10^3$

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) $7,591.9 = 7.5919 \times 10^3$

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