

Name : \_\_\_\_\_

Score : \_\_\_\_\_

## Scientific Notation

Mixed: ES2

### Example: 1

Write 165 in scientific notation.

We should move the decimal point 2 places to the left. So, the exponent will be 2.

$$165 = 1.65 \times 10^2$$

### Example: 2

Write 0.0641 in scientific notation.

We should move the decimal point 2 places to the right. So, the exponent will be -2.

$$0.0641 = 6.41 \times 10^{-2}$$

Express each number in scientific notation

1) 360 = \_\_\_\_\_

3) 0.00584 = \_\_\_\_\_

5) 1,073 = \_\_\_\_\_

7) 0.9861 = \_\_\_\_\_

9) 84,802 = \_\_\_\_\_

11) 0.075 = \_\_\_\_\_

12) 18,569 = \_\_\_\_\_

13) 977 = \_\_\_\_\_

14) 0.000026 = \_\_\_\_\_

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**Scientific Notation**

Mixed: ES2

Example: 1

Write 165 in scientific notation.

We should move the decimal point 2 places to the left. So, the exponent will be 2.

$$165 = 1.65 \times 10^2$$

Example: 2

Write 0.0641 in scientific notation.

We should move the decimal point 2 places to the right. So, the exponent will be -2.

$$0.0641 = 6.41 \times 10^{-2}$$

Express each number in scientific notation

1) 360 = \_\_\_\_\_

$9.1 \times 10^{-4}$

3) 0.00584 = \_\_\_\_\_

$4.4268 \times 10^4$

5) 1,073 = \_\_\_\_\_

$7.69 \times 10^{-2}$

7) 0.9861 = \_\_\_\_\_

$3.169 \times 10^3$

9) 84,802 = \_\_\_\_\_

$5.8 \times 10^{-3}$

11) 0.075 =  $7.5 \times 10^{-2}$

12) 18,569 =  $1.8569 \times 10^4$

13) 977 =  $9.77 \times 10^2$

14) 0.000026 =  $2.6 \times 10^{-5}$

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