

Name : _____

Score : _____

Standard and Scientific NotationsPositive: ES1 *mixed easy*

Express each number in scientific notation.

1) 52,427 = _____

2) 312 = _____

3) 266 = _____

4) 61,218 = _____

5) 18 = _____

6) 85.96 = _____

7) 1,005 = _____

8) 700 = _____

Express each number in standard notation.

9) 8.6×10^3 = _____

10) 5.11×10^3 = _____

11) 3.042×10^2 = _____

12) 7.259×10^4 = _____

13) 9.10×10^3 = _____

14) 6.5×10^4 = _____

15) 6.1×10^4 = _____

16) 9.8×10 = _____

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Answer key**Standard and Scientific Notations**

Positive: ES1

Express each number in scientific notation.

1) 52,427 = 5.2427×10^4

2) 312 = 3.12×10^2

3) 266 = 2.66×10^2

4) 61,218 = 6.1218×10^4

5) 18 = 1.8×10

6) 85.96 = 8.596×10

7) 1,005 = 1.005×10^3

8) 700 = 7×10^2

Express each number in standard notation.

9) 8.6×10^3 = 8,600

10) 5.11×10^3 = 5,110

11) 3.042×10^2 = 304.2

12) 7.259×10^4 = 72,590

13) 9.10×10^3 = 9,100

14) 6.5×10^4 = 65,000

15) 6.1×10^4 = 61,000

16) 9.8×10 = 98

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Scientific Notation *per neg 1*

Write each number in standard format.

- 1) 7.85×10^2 = _____
- 2) 9.7985×10^4 = _____
- 3) 7.81×10^{-9} = _____
- 4) 1.86×10^{-2} = _____
- 5) 3.709×10^{-4} = _____
- 6) 3.8772×10^{-7} = _____
- 7) 7.19×10^1 = _____
- 8) 3.942×10^9 = _____
- 9) 4.1×10^8 = _____
- 10) 6.983×10^{-8} = _____

Write each number in scientific notation.

- 11) 0.00000606210 = _____
- 12) 0.000099380 = _____
- 13) 0.00502 = _____
- 14) 6768000 = _____
- 15) 5060 = _____
- 16) 46900000 = _____
- 17) 58729 = _____
- 18) 212200 = _____
- 19) 0.69234 = _____
- 20) 0.000209 = _____



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Scientific Notation

Write each number in standard format.

- | | | | |
|------|-------------------------|---|-----------------------|
| 1) | 7.85×10^2 | = | <u>785</u> |
| 2) | 9.7985×10^4 | = | <u>97985</u> |
| 3) | 7.81×10^{-9} | = | <u>0.000000007810</u> |
| 4) | 1.86×10^{-2} | = | <u>0.0186</u> |
| 5) | 3.709×10^{-4} | = | <u>0.0003709</u> |
| 6) | 3.8772×10^{-7} | = | <u>0.000000387720</u> |
| 7) | 7.19×10^1 | = | <u>71.9</u> |
| 8) | 3.942×10^9 | = | <u>3942000000</u> |
| 9) | 4.1×10^8 | = | <u>410000000</u> |
| 10) | 6.983×10^{-8} | = | <u>0.000000069830</u> |

Write each number in scientific notation.

- | | | | |
|------|---------------|---|---|
| 11) | 0.00000606210 | = | <u>6.0621×10^{-6}</u> |
| 12) | 0.000099380 | = | <u>9.938×10^{-5}</u> |
| 13) | 0.00502 | = | <u>5.02×10^{-3}</u> |
| 14) | 6768000 | = | <u>6.768×10^6</u> |
| 15) | 5060 | = | <u>5.06×10^3</u> |
| 16) | 46900000 | = | <u>4.69×10^7</u> |
| 17) | 58729 | = | <u>5.8729×10^4</u> |
| 18) | 212200 | = | <u>2.122×10^5</u> |
| 19) | 0.69234 | = | <u>6.9234×10^{-1}</u> |
| 20) | 0.000209 | = | <u>2.09×10^{-4}</u> |



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Scientific Notation

pos neg zero 1

Write each number in standard format.

- 1) 9.2242×10^5 = _____
- 2) 3.7068×10^2 = _____
- 3) 2.76×10^{-8} = _____
- 4) 9.2104×10^4 = _____
- 5) 5.669×10^{-6} = _____
- 6) 2.94×10^{-5} = _____
- 7) 7.9×10^6 = _____
- 8) 6.7418×10^{-4} = _____
- 9) 6.179×10^0 = _____
- 10) 3.224×10^8 = _____

Write each number in scientific notation.

- 11) 0.733 = _____
- 12) 0.00079736 = _____
- 13) 72500000 = _____
- 14) 0.0000006380 = _____
- 15) 89680 = _____
- 16) 17.4 = _____
- 17) 0.022968 = _____
- 18) 0.0000000070180 = _____
- 19) 5890 = _____
- 20) 0.00819 = _____



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Scientific Notation

Write each number in standard format.

- | | | | |
|------|-------------------------|---|----------------------|
| 1) | 9.2242×10^5 | = | <u>922420</u> |
| 2) | 3.7068×10^2 | = | <u>370.68</u> |
| 3) | 2.76×10^{-8} | = | <u>0.00000002760</u> |
| 4) | 9.2104×10^4 | = | <u>92104</u> |
| 5) | 5.669×10^{-6} | = | <u>0.0000056690</u> |
| 6) | 2.94×10^{-5} | = | <u>0.00002940</u> |
| 7) | 7.9×10^6 | = | <u>7900000</u> |
| 8) | 6.7418×10^{-4} | = | <u>0.00067418</u> |
| 9) | 6.179×10^0 | = | <u>6.179</u> |
| 10) | 3.224×10^8 | = | <u>322400000</u> |

Write each number in scientific notation.

- | | | | |
|------|-----------------|---|---|
| 11) | 0.733 | = | <u>7.33×10^{-1}</u> |
| 12) | 0.00079736 | = | <u>7.9736×10^{-4}</u> |
| 13) | 72500000 | = | <u>7.25×10^7</u> |
| 14) | 0.0000006380 | = | <u>6.38×10^{-7}</u> |
| 15) | 89680 | = | <u>8.968×10^4</u> |
| 16) | 17.4 | = | <u>1.74×10^1</u> |
| 17) | 0.022968 | = | <u>2.2968×10^{-2}</u> |
| 18) | 0.0000000070180 | = | <u>7.018×10^{-9}</u> |
| 19) | 5890 | = | <u>5.89×10^3</u> |
| 20) | 0.00819 | = | <u>8.19×10^{-3}</u> |



Name: _____ Date: _____

Exponents Worksheet

Write using exponents. For example, $8 \times 8 \times 8$ is written as 8^3 . You don't have to solve.

1 a. $9 \times 9 \times 9 \times 9 \times 9 \times 9 \times 9 \times 9 \times 9$

2 a. $64 \times 64 \times 64 \times 64 \times 64 \times 64 \times 64 \times 64 \times 64$

3 a. $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$

4 a. $100 \times 100 \times 100 \times 100 \times 100$

5 a. 1×1

6 a. $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

7 a. $95 \times 95 \times 95$

8 a. 7×7

9 a. $1 \times 1 \times 1 \times 1 \times 1 \times 1$

10 a. $2 \times 2 \times 2 \times 2$

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Answer Key

1 a. 9^9

2 a. 64^9

3 a. 4^8

4 a. 100^5

5 a. 1^2

6 a. 2^7

7 a. 95^3

8 a. 7^2

9 a. 1^6

10 a. 2^4