

## Comparing Numbers in Scientific Notation

A-SN 1

**Instructions:** Use the greater-than, less-than or equal signs to compare these numbers written in Scientific Notation.

1  $2.5 \times 10^6$   $<$   $1.8 \times 10^7$

2  $3 \times 10^5$   $>$   $6 \times 10^{-9}$

3  $1 \times 10^{15}$   $<$   $1 \times 10^{20}$

4  $3.5 \times 10^4$   $=$   $3.50 \times 10^4$

5  $2.2 \times 10^{-31}$   $>$   $6.63 \times 10^{-34}$

6  $1.0 \times 10^{-5}$   $<$   $1.0 \times 10^5$

7  $1.0 \times 10^{18}$   $=$   $1.000 \times 10^{18}$

8  $9.8 \times 10^7$   $>$   $4.1 \times 10^7$

9  $5 \times 10^{10}$   $>$   $7 \times 10^9$

10  $7.4 \times 10^{10}$   $<$   $6.022 \times 10^{23}$

11  $1.25 \times 10^{-6}$   $>$   $1.25 \times 10^{-60}$

12  $3.2 \times 10^{-25}$   $<$   $9.08 \times 10^{25}$

13  $3 \times 10^{100}$   $<$   $2 \times 10^{101}$

14  $5.700 \times 10^8$   $=$   $5.7 \times 10^8$

15  $4 \times 10^1$   $<$   $4 \times 10^2$

16  $9.9 \times 10^{-99}$   $<$   $7.7 \times 10^{-77}$

## Scientific Notation Conversions - Set 1

A-SN 2

**Instructions:** Convert these numbers written in Scientific Noation into regular form.

1  $3.5 \times 10^7$   
 $3.5000000.$   
 1 2 3 4 5 6 7  
 35,000,000

2  $1.38 \times 10^5$   
 $1.38000.$   
 1 2 3 4 5  
 138,000

3  $5.52 \times 10^{-4}$   
 $0.000552$   
 4 3 2 1  
 0.000552

4  $7.6 \times 10^{-8}$   
 $0.000000076$   
 8 7 6 5 4 3 2 1  
 0.000000076

5  $6.25 \times 10^{12}$   
 $6.250000000000.$   
 1 2 3 4 5 6 7 8 9 10 11 12  
 6,250,000,000,000

6  $9.1 \times 10^6$   
 $9.100000.$   
 1 2 3 4 5 6  
 9,100,000

**Instructions:** Convert these numbers written in regular form into Scientific Notation.

1 4,20,000,000.  
 8 7 6 5 4 3 2 1  
 $4.2 \times 10^8$

2 270,000.  
 5 4 3 2 1  
 $2.7 \times 10^5$

3 0.0000003.  
 1 2 3 4 5 6 7  
 $3 \times 10^{-7}$

4 150,000,000,000.  
 11 10 9 8 7 6 5 4 3 2 1  
 $1.5 \times 10^{11}$

5 11,300,000.  
 7 6 5 4 3 2 1  
 $1.13 \times 10^7$

6 0.0000000391  
 1 2 3 4 5 6 7 8  
 $3.91 \times 10^{-8}$

## Scientific Notation Conversions - Set 2

A-SN 3

**Instructions:** Convert these numbers written in Scientific Noation into regular form.

1  $1.2 \times 10^{-6}$   
0.000001.2  
6 5 4 3 2 1

0.0000012

2  $8.523 \times 10^{-4}$   
0.0008523  
4 3 2 1

0.0008523

3  $5.4 \times 10^{10}$   
5.4000000000.  
1 2 3 4 5 6 7 8 9 10

54,000,000,000

4  $7.2 \times 10^7$   
7.2000000.  
1 2 3 4 5 6 7

72,000,000

5  $3.008 \times 10^5$   
3.00800.  
1 2 3 4 5

300,800

6  $4 \times 10^{-9}$   
0.000000004.  
9 8 7 6 5 4 3 2 1

0.000000004

**Instructions:** Convert these numbers written in regular form into Scientific Notation.

1 0.0000095  
1 2 3 4 5 6

$9.5 \times 10^{-6}$

2 0.0000000000055  
1 2 3 4 5 6 7 8 9 10 11 12

$5.5 \times 10^{-12}$

3 29,100,000,000.  
10 9 8 7 6 5 4 3 2 1

$2.91 \times 10^{10}$

4 0.000000061  
1 2 3 4 5 6 7 8

$6.1 \times 10^{-8}$

5 418,300,000.  
8 7 6 5 4 3 2 1

$4.183 \times 10^8$

6 0.0000725  
1 2 3 4 5

$7.25 \times 10^{-5}$