

From Scientific Notation to Standard Form:

Steps:

1. For a positive exponent – move decimal to the right
2. For a negative exponent – move decimal to the left
3. Fill in holes with zeroes.

1.  $6.52 \times 10^3$

2.  $4.21 \times 10^{-5}$

3.  $1.213 \times 10^{-2}$

4.  $3.2 \times 10^5$

5.  $7 \times 10^3$

6.  $8.135 \times 10^{-3}$

7.  $5.013 \times 10^7$

8.  $3.01 \times 10^{-6}$

From Standard Form to Scientific Notation:

Steps:

1. Only 1 number to the left of the decimal!
2. Count how many times you move the decimal so there's only one number to the left – that will be your exponent
3. If the original number is bigger than one, it's a positive exponent
4. If the original number is less than one, it's a negative exponent

1. 430,000

2. 12,130,000

3. 5,000

4. 0.00315

5. 0.0004

6. 0.012

7. 103,000

8. 0.000003219