

1. **Determine the number of significant figures in each of the following:**

- 3427
- 0.00456
- 2205.2
- 30.0
- 9000
- 0.502
- 75020

2. **Convert each of the following into scientific notation.**

- 3427
- 0.00456
- 123,453
- 172
- 0.000984
- 0.502
- 0.0000455

3. **Convert back from scientific notation**

- 1.3622052×10^6
- 4.500×10^5
- 5.65×10^{-3}
- 2.2052×10^3
- 6.50502×10^2
- 4.55×10^{-5}
- 9.82×10^{-4}