

Feb 7, 2018

- 1) Significant Digits cont
 - Answers to HW
 - Rounding with SD

Warm-Up

List the number of SD in each number.

- 1) 0.004560
- 2) 104560
- 3) 6980430.5

SIO Sig Figs Answers

1. 670 mg 2 SF
2. 0.0045g 2 SF
3. 5005.0 cm 5 SF
4. 3.250 km 4 SF
5. 43.050 L 5 SF
6. 0.354 m 3 SF
7. 0.0540g 3 SF
8. 300,900 L 4 SF
9. 2.000 cm 4 SF
10. 6720.45m 6 SF
11. 50,000km 1 SF
12. 0.0005g 1 SF

Rounding using significant digits

1. You must maintain the place value of the number
 2. You can use zeros to keep the value, but decrease significant digits (remember zeros at the end do not count unless there is a decimal in the number and zeros at the beginning never count)
 3. Always check the number beside the last significant digit if it is 4 or less keep it the same, if it is 5 or greater round that number up to the next number
- i.e. lets round 742,396 to four, three and two significant digits

i.e. How would you round this # to 3SD

0.0045678

Round each of the following to 3SD

1) 1456

andReveal-Rect
e

2) 678 920

andReveal-Rect
e

3) 0.023456

andReveal-Rect
e

SD WS #25-30