

Examples - Sig Fig - Reading Someone's Value

Rule 1: 3.4 g 2 sig fig (since both digits are non-zeros)

Rule 2: 40.04 cm 4 sig fig
• both zeros are sig fig since they are between 2 non-zeros (decimal does not matter)

Rule 3: 0.04 cm 1 sig fig since zero before 4 are not significant since number is less than one.

09.404 g 4 sig fig with 1st zero not significant
No one writes it like this, they would write number as 9.404 g

Rule 4: 1.20 g 3 sig fig zero is significant since it is located after decimal place (it shows how accurate measuring device is.)

120 g 2 sig fig zero is not significant since it is just holding the value of the number.
(so it would not be 12 g)

If I put a decimal place after 120 g to make $120.\text{ g}$ then the zero is significant so it would be 3 sig fig