

**Decimal Place**

4.32567

The first number after the decimal point is called the first decimal place.

Each number has a position after the decimal point. 6 is the 4<sup>th</sup> number after the decimal point so 6 is in the 4<sup>th</sup> decimal place.

**Rounding to nearest 10**

Round 3347 to the nearest 10.

3347

When rounding to the nearest 10, the number in the units column is the decider number

**Common Mistake**  
Remember to have a zero in the units column. 3347 = 3350 to the nearest 10, not 335.

The decider number is 7, which means we round the tens number up to a 5

3347 = 3350 rounded to the nearest 10.

**Rounding to nearest 100**

Round 62347 to the nearest 100.

62347

When rounding to the nearest 100, the number in the tens column is the decider number

The decider number is 4, which means we leave the 3 as it is.

62347 = 62300 rounded to the nearest 100

**Approximating calculations**

Approximate  $\frac{39.46 \times 1.98}{10.13}$

Round each number to the nearest whole number, 10 or 100 – whichever is appropriate.

$$\frac{39.46 \times 1.98}{10.13} \approx \frac{40 \times 2}{10} = \frac{80}{10} = 8$$

**Rounding to a given number of Decimal Places**

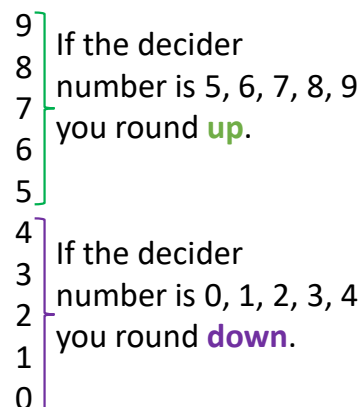
Round 7.32571 to 3 decimal places

7.32571

When rounding to 3 decimal places, the number in the 4<sup>th</sup> decimal place is the decider number.

The decider number is 7, which means we round the number in the 3<sup>rd</sup> decimal place up to a 6.

7.32571 = 7.326 to 3 decimal places



**Rounding to nearest whole number**

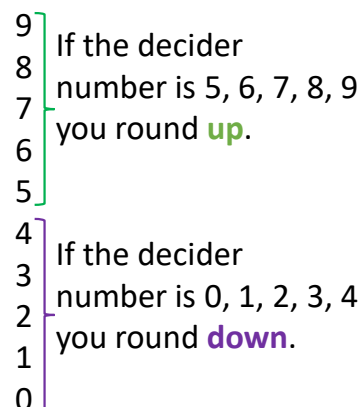
Round 432.67 to the nearest whole number.

432.67

When rounding to the nearest whole number, the number in the first decimal place is the decider number

The decider number is 6, which means we round the unit number up to a 3

432.67 = 433 to the nearest whole number



**Place Value**

When Rounding and Approximating, it is very important to remember the place value for each column.

