



## Rosary School \ Marj Elhamam

Name : .....

Date : / 9 / 2025

Subject: Study sheet (1)

Grade : 6 ( )

### 1.A Understand Decimals up to Thousandths

Place value refers to the value of the digits in any given number.

In the number 482 for example, the value of the digit '4' is **400**, the value of the digit '8' is **80** and the value of the digit '2' is simply **2**.

At a more advanced level, in the number 36.57, the value of the digit '5' is **0.5** and the value of the digit '7' is **0.07**.

							Decimal point		
One Millions	Hundred Thousands	Ten Thousands	One Thousands	Hundreds	Tens	Ones	.	tenths	hundredths
3	0	1	5	2	6	8	.	4	9
← 10 times bigger							10 times smaller →		

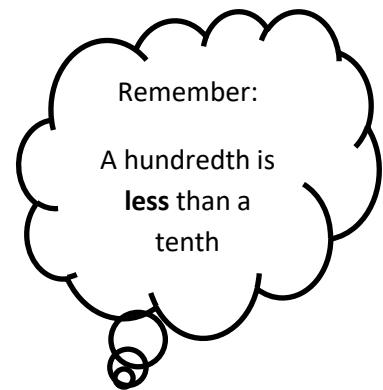
## Important vocabulary

**Compose:** put a number together from its parts, for example  $600+30+2=632$

**Decompose:** break down a number into parts, for example 456 is  $400+50+6$

**Decimal number:** a number written in decimal notation, for example 34.5

**Regroup:** to change the way a number is written, for example  $456=400+50+6$ , but you can also change this to  $400+40+10+6$



### 1.B Multiply and Divide by 10, 100 or 1000

- If you multiply a whole number by:

10 add one zero, for example  $34 \times 10$  is 340

100 add two zeros, for example  $34 \times 100$  is 3400

1000 add three zeros, for example  $34 \times 1000$  is 34000

- If you multiply a decimal number by:

10 move the decimal point **one** place to the **right**

100 move the decimal point **two** places to the **right**

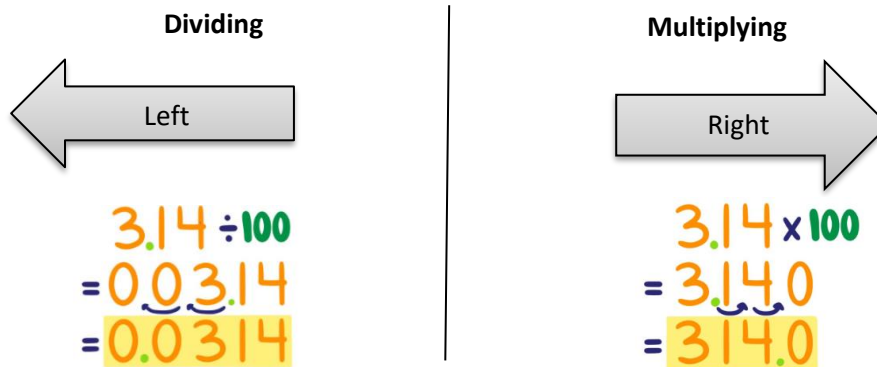
1000 move the decimal point **three** places to the **right**

- If you divide a decimal number by:

10 move the decimal point **one** place to the **left**

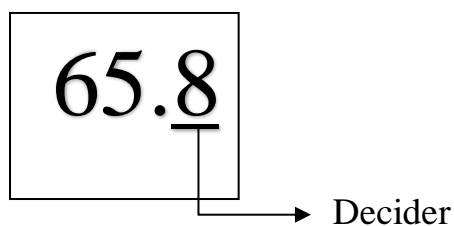
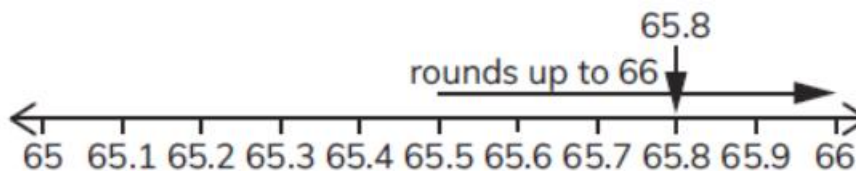
100 move the decimal point **two** places to the **left**

1000 move the decimal point **three** places to the **left**



### 1.C Round Decimal to the Nearest Whole Number or Tenth

You can round a number to the nearest whole number, for example 65.8 is rounded to 66 as follow:



If the decider is:

**Less than 5** so round down

**5 or more** so round up

