



## Rosary School \ Marj Elhamam

Name : .....

Date : / 9 / 2025

Subject: Study sheet (1) / Chapter 1

Grade : 5 ( )

### Place Value

#### 1.A Understand Decimals up to Thousandths

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

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**.

Here is a place value chart for a decimal number.

							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 →		

## Examples for real life values with decimal point

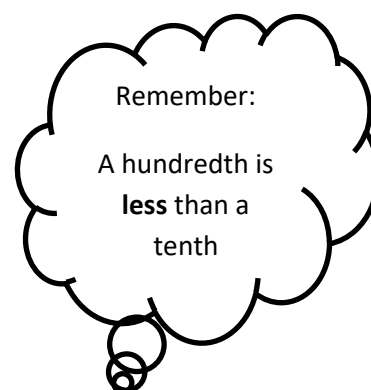
- a) A student's height is **1.52** m ,and her brother's height **1.67** m .
- b) A swimmer finishes a lap in **56.72** seconds .
- c) A cake recipe needs **1.25** cups of sugar and **0.75** cups of milk .

## 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  $400+50+6$

**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

A phone case costs 12.5 JD, What if you buy 10 cases?

$$12.5 \times 10 = 125 \text{ JD.}$$

You deposit 4.75 JD every day, How much after 10 days?

$$4.75 \times 10 = 47.5 \text{ JD}$$

If you save 3250 fils, how many dinars is that?

$$3250 \div 1000 = 3.25 \text{ JD}$$

- **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

We round numbers to make them simpler, faster, and more useful in daily life, while still keeping them close to the real value

For example :

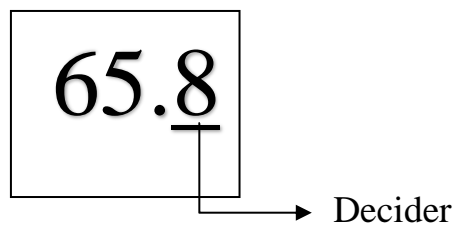
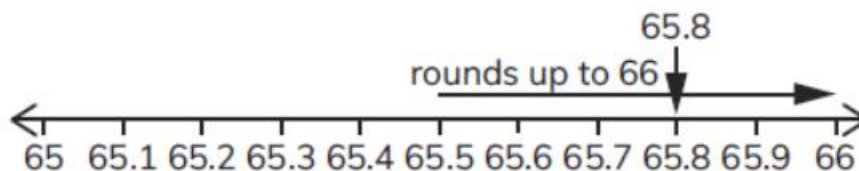
Prices are often rounded to the nearest cent or fils.

Example: 3.999 JD is rounded to 4.00 JD

Sometimes the exact value is unnecessary.

Example: If the temperature is 23.456 °C, saying 23.5 °C is enough

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



The decider in rounding numbers is the digit immediately to the right of the place value you are rounding to

If the decider is:

**Less than 5** so round down

**5 or more** so round up

