

**Grade 06**  
**Mathematics**  
**( English Medium )**

**UNIT 13**

**DECIMALS**

***CONDUCTED BY : KRISHANTHI RATHNASENA***

# Review Exercise



(Position / Place value / Value denoted by the digit )

2456

Two thousand four hundred fifty six

Position

Place value

Value denoted  
by the digit

Ones Place

1 - one

6

Tens Place

10 - ten

50

Hundreds Place

100 - hundred

400

Thousands Place

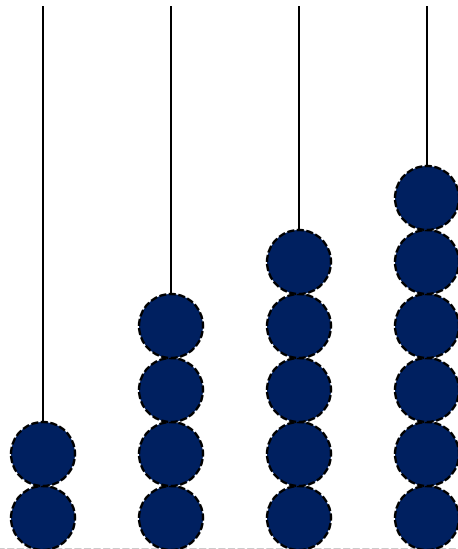
1000 - thousand

2000

# Representing a number on an abacus

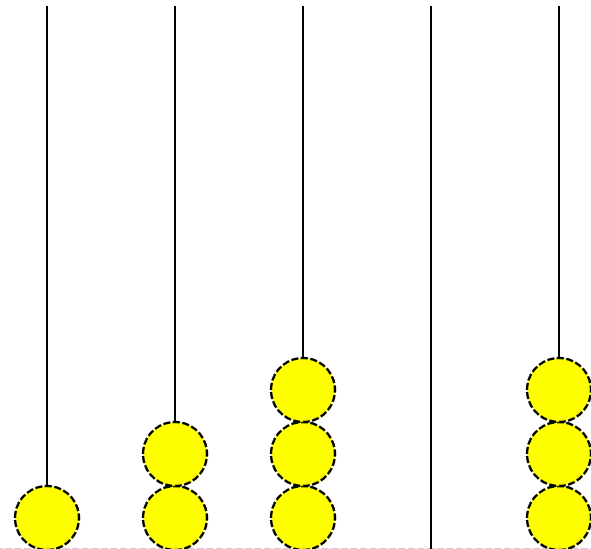


2 456



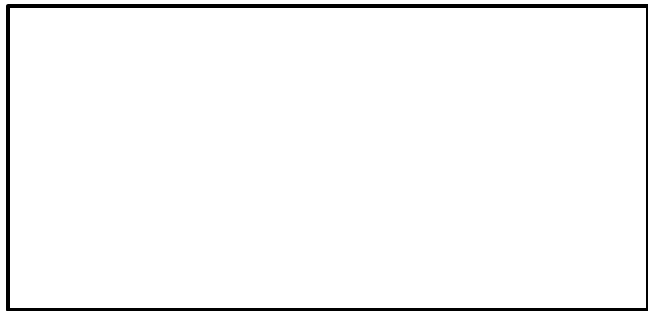
1000S 100S 10S 1S

12 303

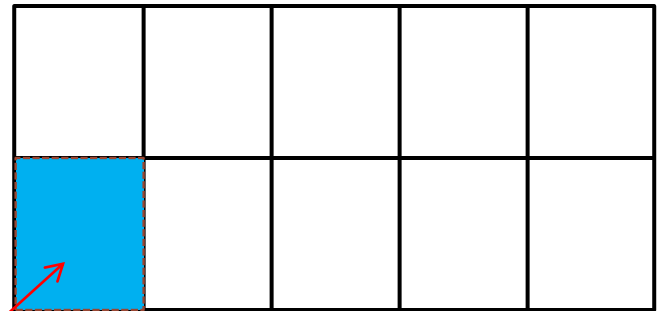


10000S 1000S 100S 10S 1S

# What is called a decimal ?



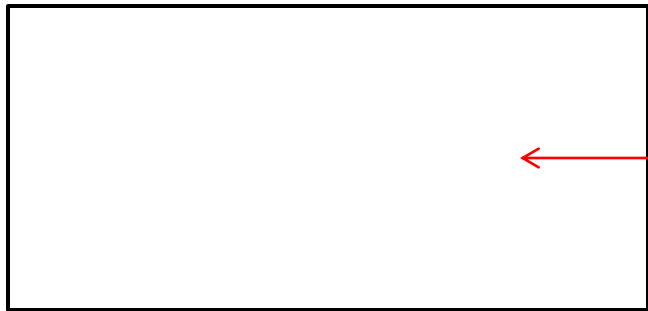
1 Unit



Shaded Region =  $\frac{1}{10}$

$$\frac{1}{10} = 0.1$$

Decimal point



Therefore Ten  $\frac{1}{10}$  s are needed to form this unit

❖ 1<sup>th</sup> portion of 1 unit is called a decimal.  
10

$$\frac{1}{10} = 0.1 \text{ ( Zero point one )}$$

Ex: i.)  $\frac{5}{10} = \text{Five } 1/10 \text{ s} = \underline{0.5} \text{ ( Zero point five )}$

ii.)  $\frac{7}{10} = \text{Seven } 1/10 \text{ s} = \underline{0.7} \text{ ( Zero point seven )}$

iii.)  $2 + \frac{7}{10} = 1 + 1 + \frac{7}{10} = \text{Two ones} + \text{seven } 1/10 \text{ s} = \underline{2.7}$   
( 2 + 0.7 ) ( Two point seven )

Re- write the following decimal numbers in words



i.) 5.3 = Five point three

ii.) 25.8 = Twenty five point eight

iii.) 165.2 = One hundred sixty five point two

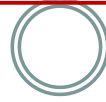
iv.) 3435.7 = Three thousand four hundred thirty five point seven

v.) 19.6 = .....

vi.) 89.2 = .....

vii.) 503.5 = .....

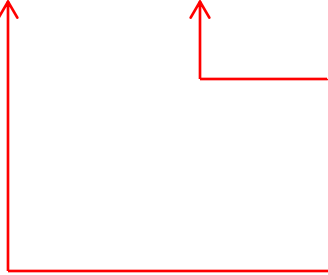
# Position / place value / value represented by the digit of a decimal number



23.7

Position	Place value	Value denoted by the digit
First decimal place or Tenth's place	$\frac{1}{10}$ or 0.1	$\frac{7}{10}$ Or 0.7
Ones place	One / 1	3
Tens place	Ten / 10	20

8 . 9



Position

Place value

Value denoted by the digit

First decimal place or Tenths place

$\frac{1}{10}$  or 0.1

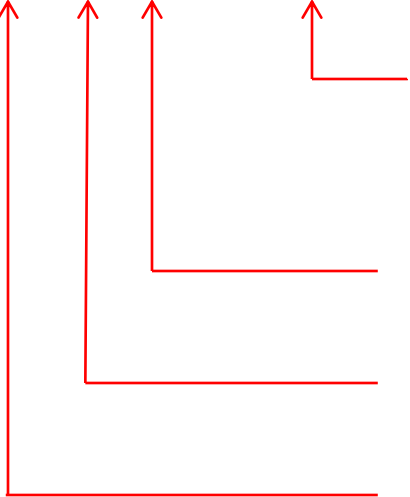
$\frac{9}{10}$  Or 0.9

Ones place

One / 1

8

203 . 2



Position

Place value

Value denoted by the digit

First decimal place or Tenths place

$\frac{1}{10}$  or 0.1

$\frac{2}{10}$  Or 0.2

Ones place

One / 1

3

Tens place

Ten / 10

0

Hundreds place

Hundred / 100

200



# Complete the following table

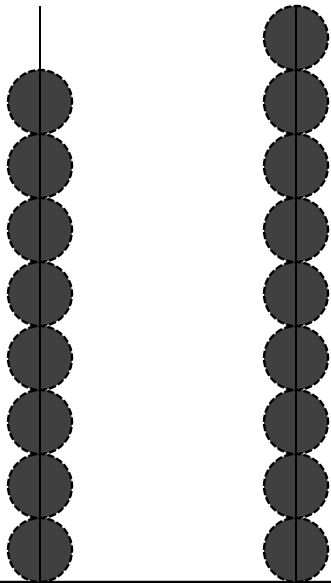


Decimal number	Position of the digit	Place value	Value denoted by the digit
1 <b>2</b> . 3	Ones place	1	2
1 0 3 . <b>5</b>	First decimal place / Tenths place	$\frac{1}{10}$ / 0.1	$\frac{5}{10}$ / 0.5
<b>3</b> 3 . 6	Tens place	10	30
<b>2</b> 9 0 . 3	Hundreds place	100	200
7 5 6 . <b>4</b>	Tenths place	$\frac{1}{10}$ / 0.1	$\frac{4}{10}$ / 0.4
2 9 . <b>9</b>			
1 0 5 . <b>5</b>			

# Representing a Decimal number on an abacus

8.9

← Eight point nine

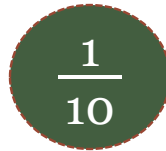


Ones  
(1 s)

Tenths  
( $\frac{1}{10}$  s)

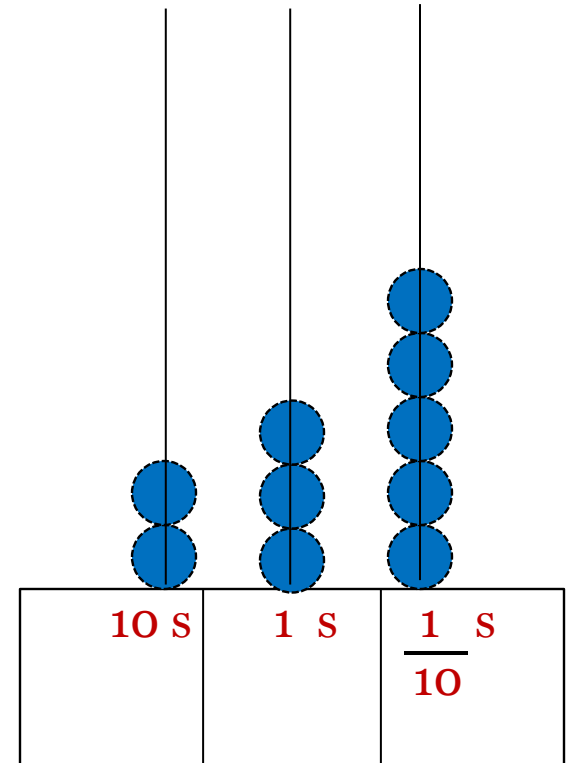


← Ten



← One tenth

23.5

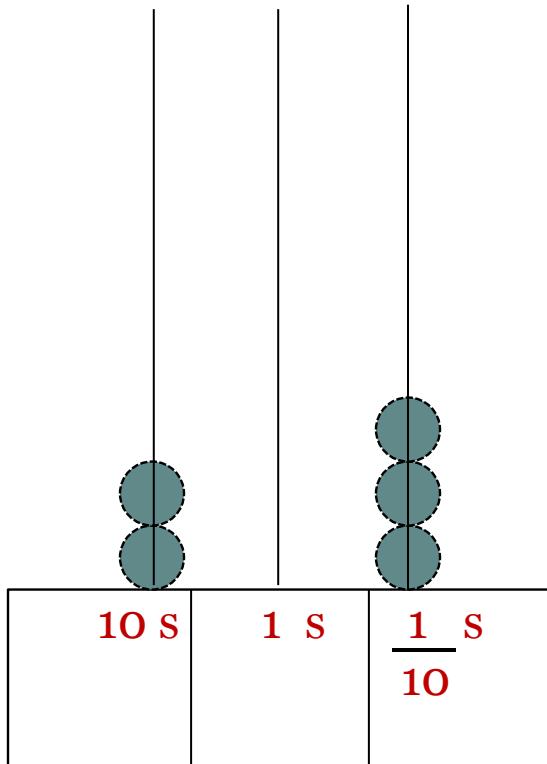


10 s

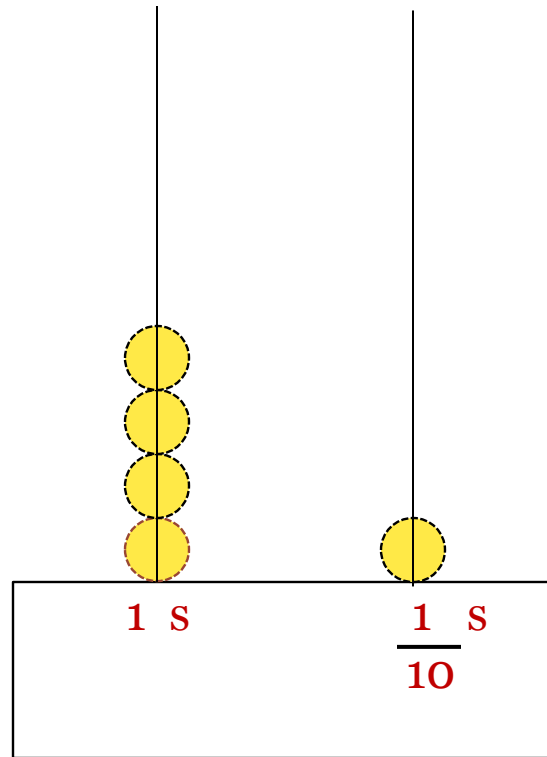
1 s

$\frac{1}{10}$  s

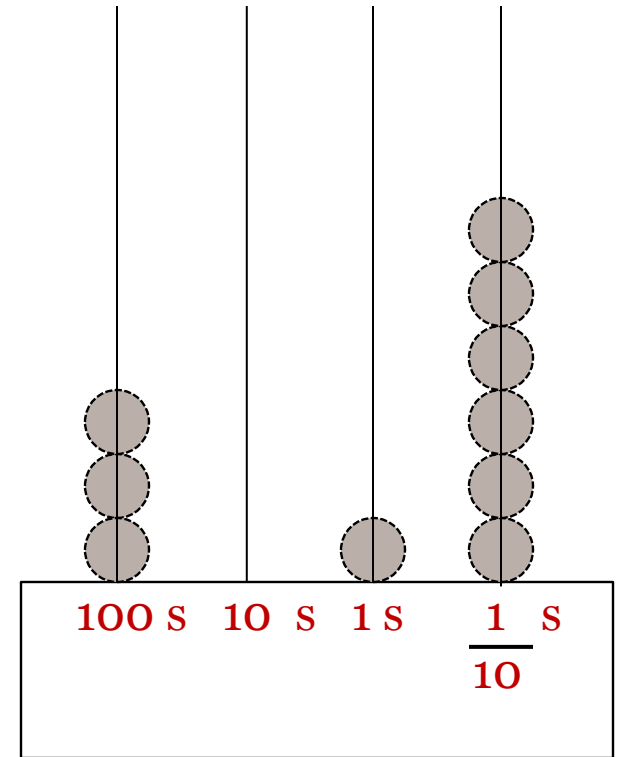
# Writing the values represented on an abacus



20.3



4.1



301.6

THE END