

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

**UNIT 13**

**DECIMALS**

**Part iii**

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# Comparison of Decimals

❖ The comparison of decimals can be done using the following symbols.

- < - **Greater than**
- > - **Less than**
- = - **Equal**

Comparison of decimals

METHOD I

Comparison of  
Decimals using  
fractions

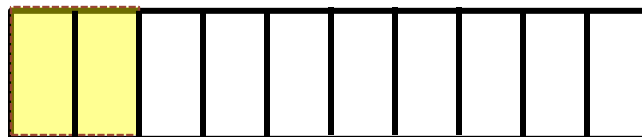
METHOD II

Comparison of  
Decimals using the  
values of its digits

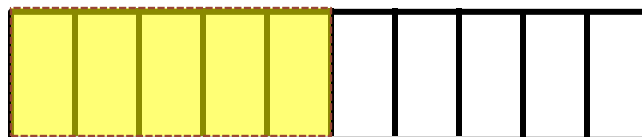
# Comparison of decimals using fractions

i.) Compare 0.2 and 0.5

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



$$0.5 = \frac{5}{10}$$

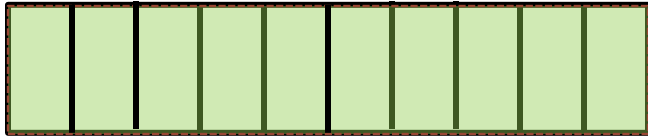


$$\text{Therefore } \frac{2}{10} < \frac{5}{10}$$

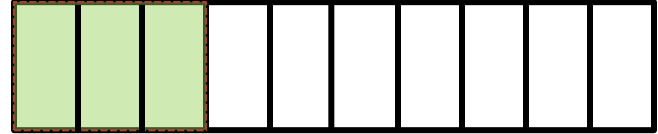
$$\underline{0.2} < \underline{0.5}$$

**i.) Compare 1.3 and 2**

$$1.3 = 1 + \frac{3}{10} = \frac{10}{10} + \frac{3}{10}$$



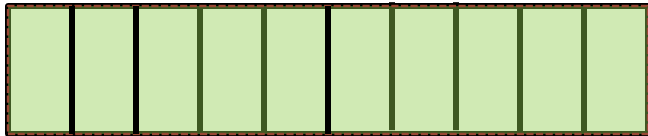
**1**



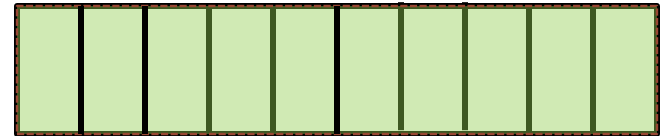
**0.3**

+

$$2 = 1 + 1 = \frac{10}{10} + \frac{10}{10}$$



**1**



**1**

+

**Therefore 1.3 < 2**

iii.) Compare 0.22 and 0.57

$$\begin{array}{rcl} 0.22 & = & \frac{22}{100} \\ & & \frac{22}{100} < \frac{57}{100} \\ & & \frac{57}{100} \end{array}$$

iv.) Compare 0.3 and 0.42

$$\begin{array}{rcl} 0.3 & = & \frac{3}{10} \\ & = & \frac{3 \times 10}{10 \times 10} \\ & = & \frac{30}{100} \end{array}$$

$$\begin{array}{rcl} \frac{30}{100} & < & \frac{42}{100} \\ \underline{0.3} & < & \underline{0.42} \end{array}$$

# Comparison of Decimals using the value of its digits

❖ **When the whole number parts are different**

i.) Write 5.12, 3.02, 4.6 in ascending order

$$\textcircled{5}.12, \textcircled{3}.02, \textcircled{4}.6$$

$$\textcircled{3} < \textcircled{4} < \textcircled{5}$$
$$3.02 < 4.6 < 5.12$$

$$\underline{3.02, 4.6, 5.12}$$

ii.) Compare 7.25 and 7.13

$$7.\textcircled{2}5, 7.\textcircled{1}3$$

$$2 > 1$$

$$\underline{7.25 > 7.13}$$

iii.) Compare 8.1 and 8.09

$$8 . \textcircled{1} , 8 . \textcircled{0} 9$$

$$1 > 0$$

$$\underline{8 . 1} > \underline{8 . 0 9}$$

iv.) Compare 7.22 and 7.25

$$7 . 2 \textcircled{2} , 7 . 2 \textcircled{5}$$

$$2 < 5$$

$$\underline{7 . 2 2} < \underline{7 . 2 5}$$

v.) Compare 3.1 and 3.10

$$\underline{3.1} = \underline{3.10}$$

➤  $\underline{3.1} = \underline{3.100}$

➤  $\underline{3.1} = \underline{3.1000}$

vi.) Write 0.02, 2, 2.02, 0.22 descending order

$$2.0\textcircled{0}, 2.0\textcircled{2} \quad / \quad 0.\textcircled{0}2, 0.\textcircled{2}2$$

$$2 < 2.02 \quad / \quad 0.02 < 0.22$$

$$\underline{2.02} > \underline{2} > \underline{0.22} > \underline{0.02}$$

Complete the exercise 13.3



**THE END**