

Subject : MATHS

09.07.2020

Class 5

Lesson: 7 B Comparison of Fractions

Comparison of Fractions means compare Fractions which is smaller or which is greater. To find greater or smaller Fractions first you have to make like Fractions which means Fractions of same denominator.

For arranging Fractions in order needs same denominator.

Comparison of Fractions

- Like Fraction with Different ~~number~~ numerators

If two fractions have the same denominator, The fraction having the smaller numerator is smaller than other.

Ex - Compare $\frac{3}{8}$ and $\frac{5}{8}$

Since, ~~8~~ $3 < 5$

$$\text{So } \frac{3}{8} < \frac{5}{8}$$

$\frac{3}{8}$ is smaller than $\frac{5}{8}$

$\frac{5}{8}$ is greater than $\frac{3}{8}$

Ex - Compare $\frac{2}{3}$, $\frac{1}{5}$, $\frac{1}{3}$

if Denominator is not same, then find L.C.M of denominator and make the like fraction.

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So, L.C.M of 3, 5, 3 = 15

$$\text{So, } \frac{2}{3} = \frac{2 \times 5}{3 \times 5} = \frac{10}{15}$$

$$\frac{1}{5} = \frac{1}{5} \times \frac{3}{3} = \frac{3}{15}$$

$$\frac{1}{3} = \frac{1}{3} \times \frac{5}{5} = \frac{5}{15}$$

So first change into like fraction means same denominator.

Now, the fraction is

$$\frac{10}{15}, \frac{3}{15}, \frac{5}{15}$$

Numerator = 10, 3, 5

$$\text{So, } \frac{3}{15} < \frac{5}{15} < \frac{10}{15}$$

which numerator is greater, the fraction is greater.

Ex-7(B)

Home Assignment

1. Fill in the blanks with '<' or '>'.

(a) $\frac{3}{4} \dots \frac{1}{4}$ (b) $\frac{2}{5} \dots \frac{4}{5}$

(c) $\frac{12}{25} \dots \frac{12}{19}$ (d) $\frac{19}{25} \dots \frac{19}{37}$ (e) $\frac{3}{8} \dots \frac{5}{6}$

(f) $\frac{5}{12} \dots \frac{7}{8}$ (g) $\frac{34}{9} \dots 7\frac{5}{12}$ (h) $2\frac{3}{5} \dots 4\frac{1}{4}$

(i) $10\frac{4}{5} \dots 10\frac{5}{12}$ (j) $\frac{5}{12} \dots \frac{7}{24}$ (k) $13\frac{7}{12} \dots 13\frac{5}{8}$

(l) $\frac{-4}{8} \dots \frac{7}{18}$

Ex- (k) $13\frac{7}{12} \dots 13\frac{5}{8}$

First make like fraction

$$13\frac{7}{12} = \frac{13 \times 12 + 7}{12} = \frac{156 + 7}{12} = \frac{163}{12}$$

$$13\frac{5}{8} = \frac{109}{8}$$

Now find L.C.M of 8 and 12 and complete ...