



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA- 700019

CLASS – IV TERM - SECOND SUBJECT- ARITHMETIC ANSWER WORKSHEET – 4 TOPIC – FRACTIONS DATE – 07.05.2020

1. Compare the like fraction.

a) $\frac{3}{8}$ $\frac{5}{8}$

Since, $3 < 5$

So, $\frac{3}{8}$ $\frac{5}{8}$

b) $\frac{7}{12}$ $\frac{9}{12}$

Since $7 < 9$

So, $\frac{7}{12}$ $\frac{9}{12}$

c) $\frac{9}{10}$ $\frac{6}{10}$

Since, $9 > 6$

So, $\frac{9}{10}$ $\frac{6}{10}$

d) $\frac{15}{22}$ $\frac{12}{22}$

Since, $15 > 12$

So, $\frac{15}{22}$ $\frac{12}{22}$

e) $\frac{14}{19}$ $\frac{17}{19}$

Since, $14 < 17$

So, $\frac{14}{19}$ $\frac{17}{19}$

2. Convert to like fraction and compare.

a) $\frac{4}{5} \square \frac{3}{4}$

L. C. M. of 5 and 4 is 20

$$\frac{4}{5} = \frac{4 \times 4}{5 \times 4} = \frac{16}{20}$$

$$\frac{3}{4} = \frac{3 \times 5}{4 \times 5} = \frac{15}{20}$$

Since, $16 > 15$

$$\text{So, } \frac{16}{20} > \frac{15}{20}$$

$$= \frac{4}{5} > \frac{3}{4}$$

Ans. $\frac{4}{5} \square > \frac{3}{4}$

b) $\frac{3}{5} \square \frac{4}{7}$

L. C. M. of 5 and 7 is 35

$$\frac{3}{5} = \frac{3 \times 7}{5 \times 7} = \frac{21}{35}$$

$$\frac{4}{7} = \frac{4 \times 5}{7 \times 5} = \frac{20}{35}$$

Since, $21 > 20$

$$\text{So, } \frac{21}{35} > \frac{20}{35}$$

$$= \frac{3}{5} > \frac{4}{7}$$

Ans. $\frac{3}{5} \square > \frac{4}{7}$

c) $\frac{5}{9} \square \frac{7}{12}$

L. C. M. of 9 and 12 is 36

$$\frac{5}{9} = \frac{5 \times 4}{9 \times 4} = \frac{20}{36}$$

$$\frac{7}{12} = \frac{7 \times 3}{12 \times 3} = \frac{21}{36}$$

Since, $20 < 21$

$$\text{So, } \frac{20}{36} < \frac{21}{36}$$

$$= \frac{5}{9} < \frac{7}{12}$$

Ans. $\frac{5}{9} \square < \frac{7}{12}$

$$d) \frac{7}{8} \square \frac{5}{7}$$

L. C. M. of 8 and 7 is 56

$$\frac{7}{8} = \frac{7 \times 7}{8 \times 7} = \frac{49}{56}$$

$$\frac{5}{7} = \frac{5 \times 8}{7 \times 8} = \frac{40}{56}$$

Since, $49 > 40$

$$\text{So, } \frac{49}{56} > \frac{40}{56}$$

$$= \frac{7}{8} > \frac{5}{7}$$

$$\text{Ans. } \frac{7}{8} \square > \frac{5}{7}$$

$$e) \frac{2}{5} \square \frac{2}{3}$$

L. C. M. of 5 and 3 is 15

$$\frac{2}{5} = \frac{2 \times 3}{5 \times 3} = \frac{6}{15}$$

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

Since, $6 < 10$

$$\text{So, } \frac{6}{15} < \frac{10}{15}$$

$$= \frac{2}{5} < \frac{2}{3}$$

$$\text{Ans. } \frac{2}{5} \square < \frac{2}{3}$$

3. Find the greatest and the smallest fractions.

$$a) \frac{7}{10} \quad \frac{9}{10} \quad \frac{3}{10} \quad \frac{1}{10}$$

Ans. Greatest fraction - $\frac{9}{10}$

Smallest fraction - $\frac{1}{10}$

$$b) \frac{5}{13} \quad \frac{8}{13} \quad \frac{7}{13} \quad \frac{3}{13}$$

Ans. Greatest fraction - $\frac{8}{13}$

Smallest fraction - $\frac{3}{13}$

$$c) \frac{6}{20} \quad \frac{6}{22} \quad \frac{6}{15} \quad \frac{6}{9}$$

When numerators are equal, the fraction with smaller denominator is greater and the fraction with greater denominator is smaller.

$$\text{Ans. Greatest fraction - } \frac{6}{9}$$

$$\text{Smallest fraction - } \frac{6}{22}$$

$$d) \frac{13}{16} \quad \frac{13}{18} \quad \frac{13}{15} \quad \frac{13}{23}$$

$$\text{Ans. Greatest fraction - } \frac{13}{15}$$

$$\text{Smallest fraction - } \frac{13}{23}$$

$$e) \frac{9}{12} \quad \frac{9}{15} \quad \frac{9}{17} \quad \frac{9}{19}$$

$$\text{Ans. Greatest fraction - } \frac{9}{12}$$

$$\text{Smallest fraction - } \frac{9}{19}$$

4. Compare the pair of fractions by cross multiplication.

$$a) \frac{3}{5}, \frac{4}{9}$$

$$\frac{3}{5} \times \frac{4}{9}$$

$$3 \times 9 = 27$$

$$5 \times 4 = 20$$

Since, $27 > 20$

$$\text{Ans. } \frac{3}{5} > \frac{4}{9}$$

$$b) \frac{5}{8}, \frac{3}{4}$$

$$\frac{5}{8} \times \frac{3}{4}$$

$$5 \times 4 = 20$$

$$8 \times 3 = 24$$

Since, $20 < 24$

$$\text{Ans. } \frac{5}{8} < \frac{3}{4}$$

c) $\frac{9}{16}, \frac{4}{7}$

$$\frac{9}{16} \times \frac{4}{7}$$

$$9 \times 7 = 63$$

$$16 \times 4 = 64$$

Since, $63 < 64$

Ans. $\frac{9}{16} < \frac{4}{7}$

d) $\frac{9}{10}, \frac{7}{15}$

$$\frac{9}{10} \times \frac{7}{15}$$

$$9 \times 15 = 135$$

$$10 \times 7 = 70$$

Since, $135 > 70$

Ans. $\frac{9}{10} > \frac{7}{15}$

e) $\frac{5}{12}, \frac{6}{17}$

$$\frac{5}{12} \times \frac{6}{17}$$

$$5 \times 17 = 85$$

$$12 \times 6 = 72$$

Since, $85 > 72$

Ans. $\frac{5}{12} > \frac{6}{17}$