



# ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA- 700019

CLASS – IV TERM – SECOND SUBJECT- ARITHMETIC ANSWER WORKSHEET – 15 TOPIC – FRACTIONS DATE – 09.06.2020

## 1. Compare the like fractions.

a)  $\frac{8}{15}$    $\frac{12}{15}$

Since,  $8 < 12$

So,  $\frac{8}{15}$    $\frac{12}{15}$

b)  $\frac{17}{24}$    $\frac{13}{24}$

Since,  $17 > 13$

So,  $\frac{17}{24}$    $\frac{13}{24}$

## 2. Circle the proper fractions.

a)  $\frac{7}{3}$    $\frac{6}{14}$   $\frac{8}{5}$

b)  $\frac{17}{9}$   $\frac{12}{7}$    $\frac{3}{5}$

## 3. Circle the improper fractions.

a)  $\frac{3}{5}$   $\frac{2}{3}$    $\frac{15}{6}$

b)  $\frac{5}{7}$    $\frac{14}{5}$   $\frac{4}{7}$

## 4. Circle the unit fractions.

a)  $\frac{4}{9}$    $\frac{1}{5}$   $\frac{13}{15}$

b)  $\frac{7}{9}$   $\frac{15}{17}$    $\frac{1}{7}$

## 5. Complete the equivalent fractions.

a)  $\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20}$

b)  $\frac{3}{7} = \frac{6}{14} = \frac{9}{21} = \frac{12}{28}$

## 6. Convert to like fractions and compare.

a)  $\frac{3}{7} \square \frac{4}{9}$

L. C. M. of 7 and 9 is 63

$$\frac{3}{7} = \frac{3 \times 9}{7 \times 9} = \frac{27}{63}$$

$$\frac{4}{9} = \frac{4 \times 7}{9 \times 7} = \frac{28}{63}$$

Since,  $27 < 28$

$$\text{So, } \frac{27}{63} < \frac{28}{63}$$

$$= \frac{3}{7} < \frac{4}{9}$$

Ans.  $\frac{3}{7} \square < \frac{4}{9}$

b)  $\frac{6}{9} \square \frac{3}{8}$

L. C. M. of 9 and 8 is 72

$$\frac{6}{9} = \frac{6 \times 8}{9 \times 8} = \frac{48}{72}$$

$$\frac{3}{8} = \frac{3 \times 9}{8 \times 9} = \frac{27}{72}$$

Since,  $48 > 27$

$$\text{So, } \frac{48}{72} > \frac{27}{72}$$

$$= \frac{6}{9} > \frac{3}{8}$$

Ans.  $\frac{6}{9} \square > \frac{3}{8}$

## 7. Reduce the following fractions into their lowest forms.

a)  $\frac{36}{72}$

H. C. F. of 36 and 72 is 36

$$\frac{36}{72} = \frac{36 \div 36}{72 \div 36} = \frac{1}{2}$$

Hence,  $\frac{1}{2}$  is the lowest form of  $\frac{36}{72}$

b)  $\frac{24}{80}$

H. C. F. of 24 and 80 is 8

$$\frac{24}{80} = \frac{24 \div 8}{80 \div 8} = \frac{3}{10}$$

Hence,  $\frac{3}{10}$  is the lowest form of  $\frac{24}{80}$

## 8. Add and reduce to the lowest forms.

$$\begin{aligned} \text{a) } & \frac{3}{5} + \frac{2}{6} \\ &= \frac{3 \times 6}{5 \times 6} + \frac{2 \times 5}{6 \times 5} \\ &= \frac{18}{30} + \frac{10}{30} \\ &= \frac{18 + 10}{30} \\ &= \frac{28}{30} \end{aligned}$$

H. C. F. of 28 and 30 is 2

$$\frac{28}{30} = \frac{28 \div 2}{30 \div 2} = \frac{14}{15}$$

Hence,  $\frac{14}{15}$  is the lowest form of  $\frac{28}{30}$

$$\begin{aligned} \text{b) } & \frac{2}{5} + \frac{3}{9} \\ &= \frac{2 \times 9}{5 \times 9} + \frac{3 \times 5}{9 \times 5} \\ &= \frac{18}{45} + \frac{15}{45} \\ &= \frac{18 + 15}{45} \\ &= \frac{33}{45} \end{aligned}$$

H. C. F. of 33 and 45 is 3

$$\frac{33}{45} = \frac{33 \div 3}{45 \div 3} = \frac{11}{15}$$

Hence,  $\frac{11}{15}$  is the lowest form of  $\frac{33}{45}$

## 9. Subtract the following and reduce to the lowest forms.

$$\begin{aligned} \text{a) } & \frac{5}{6} - \frac{2}{3} \\ &= \frac{5 \times 3}{6 \times 3} - \frac{2 \times 6}{3 \times 6} \\ &= \frac{15}{18} - \frac{12}{18} \\ &= \frac{15 - 12}{18} \\ &= \frac{3}{18} \end{aligned}$$

H. C. F. of 3 and 18 is 3

$$\frac{3}{18} = \frac{3 \div 3}{18 \div 3} = \frac{1}{6}$$

Hence,  $\frac{1}{6}$  is the lowest form of  $\frac{3}{18}$

$$\begin{aligned}
 \text{b) } & \frac{9}{10} - \frac{3}{5} \\
 &= \frac{9 \times 5}{10 \times 5} - \frac{3 \times 10}{5 \times 10} \\
 &= \frac{45}{50} - \frac{30}{50} \\
 &= \frac{45 - 30}{50} \\
 &= \frac{15}{50}
 \end{aligned}$$

H. C. F. of 15 and 50 is 5

$$\frac{15}{50} = \frac{15 \div 5}{50 \div 5} = \frac{3}{10}$$

Hence,  $\frac{3}{10}$  is the lowest form of  $\frac{15}{50}$

### 10. Solve:-

$$\begin{aligned}
 \text{a) } & 2\frac{3}{5} + 3\frac{2}{4} \\
 &= \frac{5 \times 2 + 3}{5} + \frac{4 \times 3 + 2}{4} \\
 &= \frac{13}{5} + \frac{14}{4} \\
 &= \frac{13 \times 4}{5 \times 4} + \frac{14 \times 5}{4 \times 5} \\
 &= \frac{52}{20} + \frac{70}{20} \\
 &= \frac{52+70}{20} \\
 &= \frac{122}{20} \\
 &= 6\frac{2}{20}
 \end{aligned}$$

**Ans.  $6\frac{2}{20}$**

$$\begin{aligned}
 \text{b) } & 3\frac{1}{6} + 2\frac{2}{3} \\
 &= \frac{6 \times 3 + 1}{6} + \frac{3 \times 2 + 2}{3} \\
 &= \frac{19}{6} + \frac{8}{3} \\
 &= \frac{19 \times 3}{6 \times 3} + \frac{8 \times 6}{3 \times 6} \\
 &= \frac{57}{18} + \frac{48}{18} \\
 &= \frac{57+48}{18} \\
 &= \frac{105}{18} \\
 &= 5\frac{15}{18}
 \end{aligned}$$

**Ans.  $5\frac{15}{18}$**