



# ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA- 700019

CLASS – IV TERM - SECOND SUBJECT- ARITHMETIC ANSWER WORKSHEET – 2 TOPIC – FRACTIONS DATE – 05.05.2020

## 1. Find two fractions equivalent to each:

$$\text{a) } \frac{3}{8} = \frac{6}{16} = \frac{9}{24}$$

$$\text{b) } \frac{2}{7} = \frac{4}{14} = \frac{6}{21}$$

## 2. Complete the equivalent fractions:

$$\text{a) } \frac{1}{6} = \frac{4}{24}$$

$$\text{b) } \frac{6}{9} = \frac{42}{63}$$

## 3. Write equivalent fractions of $\frac{7}{9}$ with numerator 35.

$$\frac{7}{9} = \frac{7 \times 5}{9 \times 5} = \frac{35}{45}$$

Thus,  $\frac{35}{45}$  is the required fraction.

## 4. Write equivalent fractions of $\frac{36}{48}$ with denominator 6.

$$\frac{36}{48} = \frac{36 \div 8}{48 \div 8} = \frac{4}{6}$$

Thus,  $\frac{4}{6}$  is the required fraction.

## 5. Write equivalent fractions by division:

$$\text{a) } \frac{18}{45} = \frac{18 \div 9}{45 \div 9} = \frac{2}{5}$$

$$\text{b) } \frac{24}{32} = \frac{24 \div 8}{32 \div 8} = \frac{3}{4}$$

## 6. Check whether following pairs are equivalent or not:

$$\text{a) } \frac{3}{4}, \frac{9}{12}$$

We cross multiply  $\frac{3}{4}$  and  $\frac{9}{12}$

$$= \frac{9 \times 4}{12 \times 3} = \frac{36}{36}$$

Since the products are same,  $\frac{3}{4}$  and  $\frac{9}{12}$  are equivalent.

b)  $\frac{4}{8}$ ,  $\frac{8}{16}$

We cross multiply  $\frac{4}{8}$  and  $\frac{8}{16}$

$$= \frac{4 \times 16}{8 \times 8} = \frac{64}{64}$$

Since the products are same,  $\frac{4}{8}$  and  $\frac{8}{16}$  are equivalent.

c)  $\frac{3}{4}$ ,  $\frac{20}{24}$

We cross multiply  $\frac{3}{4}$  and  $\frac{20}{24}$

$$= \frac{3 \times 24}{4 \times 20} = \frac{72}{80}$$

Since the products are not same,  $\frac{3}{4}$  and  $\frac{20}{24}$  are not equivalent.

d)  $\frac{3}{7}$ ,  $\frac{7}{11}$

We cross multiply  $\frac{3}{7}$  and  $\frac{7}{11}$

$$= \frac{3 \times 11}{7 \times 7} = \frac{33}{49}$$

Since the products are not same,  $\frac{3}{7}$  and  $\frac{7}{11}$  are not equivalent.

**7. Express the following improper fraction as mixed numbers:**

a)  $\frac{15}{7}$

$$\begin{array}{r} 2 \\ 7 \overline{)15} \\ \underline{14} \\ 1 \end{array}$$

**Ans.  $2\frac{1}{7}$**

b)  $\frac{11}{5}$

$$\begin{array}{r} 2 \\ 5 \overline{)11} \\ \underline{10} \\ 1 \end{array}$$

**Ans.  $2\frac{1}{5}$**

c)  $\frac{23}{4}$

$$\begin{array}{r} 5 \\ 4 \overline{)23} \\ \underline{20} \\ 3 \end{array}$$

**Ans.**  $5\frac{3}{4}$

d)  $\frac{17}{5}$

$$\begin{array}{r} 3 \\ 5 \overline{)17} \\ \underline{15} \\ 2 \end{array}$$

**Ans.**  $3\frac{2}{5}$

**8. Express the following mixed numbers as improper fractions:**

a)  $2\frac{3}{4}$

$$2\frac{3}{4} = \frac{(4 \times 2) + 3}{4} = \frac{8+3}{4} = \frac{11}{4}$$

**Ans.**  $\frac{11}{4}$

b)  $5\frac{1}{2}$

$$5\frac{1}{2} = \frac{(2 \times 5) + 1}{2} = \frac{10+1}{2} = \frac{11}{2}$$

**Ans.**  $\frac{11}{2}$

c)  $3\frac{2}{5}$

$$3\frac{2}{5} = \frac{(5 \times 3) + 2}{5} = \frac{15+2}{5} = \frac{17}{5}$$

**Ans.**  $\frac{17}{5}$

d)  $8\frac{4}{9}$

$$8\frac{4}{9} = \frac{(9 \times 8) + 4}{9} = \frac{72+4}{9} = \frac{76}{9}$$

**Ans.**  $\frac{76}{9}$