



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

27, BALLYGUNGE CIRCULAR ROAD, KOLKATA- 700019

CLASS – IV TERM - SECOND SUBJECT- ARITHMETIC ANSWER WORKSHEET – 3 TOPIC – FRACTIONS DATE – 06.05.2020

1. Find the missing numbers in the equivalent fractions:

$$a) \frac{3}{10} = \frac{15}{50}$$

$$b) \frac{5}{10} = \frac{20}{40}$$

$$c) \frac{5}{8} = \frac{15}{24}$$

2. Complete the equivalent fractions:

$$a) \frac{7}{8} = \frac{56}{64} = \frac{63}{72}$$

$$b) \frac{1}{6} = \frac{3}{18} = \frac{8}{48}$$

$$c) \frac{9}{12} = \frac{81}{108} = \frac{27}{36}$$

$$d) \frac{2}{4} = \frac{6}{12} = \frac{8}{16}$$

3. a) Write 5 equivalent fractions of $\frac{3}{5}$

$$\frac{3}{5} \times \frac{2}{2} = \frac{6}{10}$$

$$\frac{3}{5} \times \frac{3}{3} = \frac{9}{15}$$

$$\frac{3}{5} \times \frac{4}{4} = \frac{12}{20}$$

$$\frac{3}{5} \times \frac{5}{5} = \frac{15}{25}$$

$$\frac{3}{5} \times \frac{6}{6} = \frac{18}{30}$$

Ans. 5 equivalent fractions are $\frac{6}{10}$, $\frac{9}{15}$, $\frac{12}{20}$, $\frac{15}{25}$, $\frac{18}{30}$

b) Write 3 equivalent fractions of $\frac{2}{9}$

$$\frac{2}{9} \times \frac{2}{2} = \frac{4}{18}$$

$$\frac{2}{9} \times \frac{3}{3} = \frac{6}{27}$$

$$\frac{2}{9} \times \frac{4}{4} = \frac{8}{36}$$

Ans. 3 equivalent fractions are $\frac{4}{18}$, $\frac{6}{27}$, $\frac{8}{36}$

c) Write 4 equivalent fractions of $\frac{3}{8}$

$$\frac{3}{8} \times \frac{2}{2} = \frac{6}{16}$$

$$\frac{3}{8} \times \frac{3}{3} = \frac{9}{24}$$

$$\frac{3}{8} \times \frac{4}{4} = \frac{12}{32}$$

$$\frac{3}{8} \times \frac{5}{5} = \frac{15}{40}$$

Ans. 4 equivalent fractions are $\frac{6}{16}$, $\frac{9}{24}$, $\frac{12}{32}$, $\frac{15}{40}$

4. Write equivalent fractions of $\frac{16}{24}$ with

a) denominator 3

$$\frac{16}{24} = \frac{16 \div 8}{24 \div 8} = \frac{2}{3}$$

Thus, $\frac{2}{3}$ is a required fraction.

b) numerator 32

$$\frac{16}{24} = \frac{16 \times 2}{24 \times 2} = \frac{32}{48}$$

Thus, $\frac{32}{48}$ is a required fraction.

5. Write equivalent fractions by division:

a) $\frac{64}{72} = \frac{64 \div 8}{72 \div 8} = \frac{8}{9}$

b) $\frac{33}{66} = \frac{33 \div 11}{66 \div 11} = \frac{3}{6} = \frac{3 \div 3}{6 \div 3} = \frac{1}{2}$

6. Check whether following pairs are equivalent or not:

a) $\frac{3}{10}$, $\frac{2}{5}$

We cross multiply $\frac{3}{10}$ and $\frac{2}{5}$
$$= \frac{3 \times 5}{10 \times 2} = \frac{15}{20}$$

Since, the products are not same, $\frac{3}{10}$ and $\frac{2}{5}$ are not equivalent.

b) $\frac{4}{7}$, $\frac{24}{42}$

We cross multiply $\frac{4}{7}$ and $\frac{24}{42}$
$$= \frac{4 \times 42}{7 \times 24} = \frac{168}{168}$$

Since, the products are same, $\frac{4}{7}$ and $\frac{24}{42}$ are equivalent.

7. Express the following improper fraction as mixed numbers:

a) $\frac{19}{5}$

$$\begin{array}{r} 3 \\ 5 \overline{)19} \\ \underline{15} \\ 4 \end{array}$$

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

b) $\frac{17}{7}$

$$\begin{array}{r} 2 \\ 7 \overline{)17} \\ \underline{14} \\ 3 \end{array}$$

Ans. $2\frac{3}{7}$

8. Express the following mixed numbers as improper fractions:

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

$$4\frac{3}{7} = \frac{(7 \times 4) + 3}{7} = \frac{28+3}{7} = \frac{31}{7}$$

Ans. $\frac{31}{7}$

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

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

Ans. $\frac{17}{3}$