

Chapter-9

Fractions

Worksheet

classmate

Date _____

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1. Fill in the blanks.

a) Fractions with different denominators are unlike fractions.

b) A mixed number is a combination of a whole number and a proper fraction.

c) A fraction greater than 1, ^{is always} a/an improper fraction.

d) In $\frac{17}{18}$, the numerator is 17.

e) The lowest term of $\frac{10}{10}$ is 1.

f) Five, one-fifth make a whole.

g) There are nine halves in $4\frac{1}{2}$.

h) A proper fraction is always less than 1.

i) Fractions with the same denominators are Like fractions.

j) The numbers such as half, one third, one-fourth, two-fifth, five-sixth are called fractional numbers.

2. Do as directed.

a) Find : $\frac{3}{5}$ of 25.

$$\text{Ans - } \frac{3}{5} \times 25 = 3 \times 5 = 15$$

b) Express $\frac{19}{2}$ as mixed number.

$$\text{Ans - } \frac{19}{2} = Q = 9 \\ R = 1$$

$$= 9 \frac{1}{2}$$

Rough work

$$\begin{array}{r} 9 \\ 2 \overline{) 19} \\ \underline{18} \\ 1 \end{array}$$

c) Express $6\frac{2}{9}$ as improper fraction.

$$6\frac{2}{9} = \frac{9 \times 6 + 2}{9} = \frac{56}{9}$$

d) Compare and put the correct symbol ($<$, $>$ or $=$)

$$\frac{3}{4} > \frac{2}{5}$$

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

$$\frac{3 \times 5}{4 \times 5} = \frac{15}{20}, \quad \frac{2 \times 4}{5 \times 4} = \frac{8}{20}$$

$$\text{As, } \frac{15}{20} > \frac{8}{20}$$

$$\text{So, } \frac{3}{4} > \frac{2}{5}$$

e) Reduce $\frac{18}{42}$ to its lowest form.

$$\text{Ans- } \frac{18^9}{42^{21}} = \frac{9^3}{21^7} = \frac{3}{7}$$

3. Solve as per the given instructions.

a) Add: $2\frac{5}{13} + 7\frac{7}{13} + 3\frac{9}{26}$

$$\frac{31}{13} + \frac{7}{13} + \frac{87}{26}$$

L.C.M of 13 and 26 = 26

$$\frac{31 \times 2 + 7 \times 2 + 87 \times 1}{26}$$

$$= \frac{62 + 14 + 87}{26} = \frac{163}{26} = 6\frac{7}{26}$$

b) Subtract $5\frac{7}{9}$ from $9\frac{5}{7}$

$$\frac{68}{7} - \frac{52}{9}$$

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

$$= \frac{68 \times 9 - 52 \times 7}{63} = \frac{612 - 364}{63}$$

$$= \frac{248}{63} = 3\frac{59}{63}$$

c) Multiply : $\frac{2}{5} \times \frac{3}{4} \times \frac{1}{2}$

$$\frac{\cancel{2} \times 3 \times 1}{5 \times 4 \times \cancel{2}} = \frac{3}{5}$$

d) Simplify : $\frac{3}{5} + \frac{1}{2} - \frac{3}{4}$

L.C.M of 5, 2 and 4 = 20

$$\frac{3 \times 4 + 1 \times 10 - 3 \times 5}{20} = \frac{12 + 10 - 15}{20} = \frac{7}{20}$$

e) A ribbon measuring $3\frac{1}{2}$ m is cut into 7 pieces. What is the length of each piece?

Ans- Total length of the ribbon $P = 3\frac{1}{2}$ m

Number of pieces = 7

$$\begin{aligned}\text{Length of each piece} &= \frac{7\frac{1}{2}}{7} \\ &= \frac{7}{2} \times \frac{1}{7} = \frac{1}{2}\end{aligned}$$

So, the length of each piece is $\frac{1}{2}$ m.

End