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Chapter- 9

Fractions

WORKSHEET

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 9 halves in $4\frac{1}{2}$.

h) A Proper fraction is always less than 1.

i) Fractions with the same denominator are like fractions.

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

2. **Do as directed :**

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

$\frac{3}{\cancel{5}_1} \times \frac{\cancel{25}^5}{\cancel{5}} = 3 \times 5 = 15$

Ans.

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

Ans. $9\frac{1}{2}$

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

Ans. $\frac{56}{9}$

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

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

Ans. $\frac{3}{4} = 0.75$ $\square$ $\frac{2}{5} = 0.4$

$= 0.75 \boxed{>} 0.4$

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

Ans. $\frac{18}{42} = \frac{3}{7}$

3. Solve as per the given instructions:

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

Ans. $\frac{31}{13} + \frac{7}{13} \times \frac{87}{26}$

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

13 | 13, 13, 26
2 | 1, 1, 2
1 1 1

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

Ans. $\frac{52}{9} - \frac{68}{7} = \frac{364 - 612}{63} = \frac{248}{63} = 3\frac{59}{63}$

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

Ans. $= \frac{2 \times 3 \times 1}{5 \times 4 \times 2} = \frac{6}{40} = \frac{3}{20}$

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

Ans. $= \frac{12+10-15}{20} = \frac{22-15}{20} = \frac{7}{20}$.

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

Ans.

solution

Given length of ribbon is $= 3\frac{1}{2} = \frac{7}{2}$

If it cut into = 7 equal pieces

let x be the length each pieces

$7x = \frac{7}{2}$

$x = \frac{1}{2}$ length of each pieces is $\frac{1}{2}$ meter.

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