actions

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 $\frac{11}{18}$, the numerator is 11.

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

f) 5, 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 Rational numbers.

2. Do as directed:

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

Ans. $\frac{25}{1} \times \frac{5}{3} = \frac{125}{3} = 41\frac{2}{3}$

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

Ans. $2\overline{)19}\ 9$

$\frac{18}{1} = 9\frac{1}{2}$

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

Ans. $6 \times 9 + 2 = 56$

$= \frac{56}{9}$

[illegible]

Ans. $\frac{3\times5}{4\times5} \bigcirc \frac{2\times4}{5\times4}$

$= \frac{15}{20} > \frac{8}{20}$

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

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

Ans. $\frac{18}{42} = \frac{9}{21} = \frac{3}{7}$

3. **Solve as per the given Instructions:**

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

Ans. $\frac{41}{13} + \frac{7}{13} + \frac{87}{26}$

$= \frac{41\times2}{13\times2} + \frac{7\times2}{13\times2} + \frac{87\times1}{26\times1}$ LCM = 26

$= \frac{82}{26} + \frac{14}{26} + \frac{87}{26} = \frac{183}{26} = 7\frac{1}{26}$

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

Ans. $\frac{68}{7} - \frac{53}{9}$

$= \frac{68\times9}{7\times9} - \frac{53\times7}{9\times7}$

$= \frac{612}{63} - \frac{371}{63} = \frac{241}{63} = 3\frac{52}{63}$

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

Ans. $\frac{2}{5} \times \frac{3}{4} \times \frac{1}{2}$

$= \frac{3}{20}$

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

Ans. $\frac{3\times4}{5\times4} + \frac{1\times10}{2\times10} - \frac{3\times5}{4\times5}$

$= \frac{12}{20} + \frac{10}{20} - \frac{15}{20}$

$= \frac{22}{20} - \frac{15}{20} = \frac{7}{20}$

2 | 5, 34
5 | 5, 17
2 | 1, 3, 2
1, 1, 1

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

Ans. A ribbon measuring $= 3\frac{1}{2} = \frac{7}{2}$

Pices cutted = 7

length of each Pices $= \frac{7}{2} \div \frac{7}{1} = \frac{7}{2} \times \frac{1}{7} = \frac{1}{2}$ m

Here, The length of each piece ribbon is $\frac{1}{2}$ m.