Fractions

Worksheet-1

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13.10.24

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) The fraction greater than 1 is always a/an proper fraction

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

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

f) $\frac{5}{5}$, one-fifth make a whole.

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

h. A improper fraction is always less than 1.

i. Fractions with the same denominator are Like fractions

j. The number such as half, one-third, one-fourth, two-fifth, five-sixth etc. are called proper fractions.

2. Do as directed :

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

Ans $(5 \times 3) = 15$

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

Ans $\frac{19}{2} = \frac{9 \times 2 + 1}{2} = 18\frac{1}{2}$

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

Ans $6\frac{2}{9} = \frac{6 \times 9 + 2}{9} = \frac{54+2}{9} = \frac{56}{9}$

~~e. Express~~

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

$\frac{3}{4} \bigcirc \frac{2}{5}$ LCM $4 \times 5 = 20$

Ans $\frac{3 \times 15}{4 \times 20}$ $\frac{2}{5} = \frac{4}{20}$

So, $\frac{3}{4} > \frac{2}{5}$ $\frac{15}{20} > \frac{4}{20}$

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

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

3. Solve as per the given instructions:

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

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

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

$= 13 \times 2$
$= 26$

62
14
+87
163

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

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

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

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

$68 \times 9 = 612$

$52 \times 7 = 364$

$612 - 364 = 248$

$9 \times 7 = 63$

$\frac{612 - 364}{63} = \frac{248}{63} = 3\frac{59}{63}$

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

Ans $\frac{\cancel{2}^{1}}{5} \times \frac{3}{\cancel{4}_{2}} \times \frac{1}{2} = \frac{3}{20}$

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

$\frac{3}{5} + \frac{1}{2} - \frac{3}{4}$

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

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

5 | 5, 2, 4
2 | 1, 2, 4
1, 1, 2

$= 5 \times 2 \times 2$

$= 20$

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

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Ans Length of 7 pieces = $3\frac{1}{2}$

Length of each piece

$= 3\frac{1}{2} \times \frac{7}{1}$

$\frac{1}{\cancel{7}} \cdot \frac{1}{\cancel{7}} = \frac{1}{2}$

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