

Day - Friday....

Lesson no.. 2.. Fractions....



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Exercise - 2C....

1 Write Down the Reciprocal of::

[i] $\frac{5}{8} = \frac{8}{5}$

[ii] $7 = \frac{1}{7}$

[iii] $\frac{1}{12} = 12$

[iv] $12\frac{3}{5} = \text{Reciprocal of } \frac{63}{5} = \frac{5}{63}$

2 Simplify::

[i] $\frac{4}{7} \div \frac{9}{14} = \frac{4}{7} \times \frac{14}{9}$
 $= \frac{8}{9}$

[ii] $\frac{7}{10} \div \frac{3}{5} = \frac{7}{10} \times \frac{5}{3}$
 $= \frac{7}{10} = 1\frac{1}{6}$

[iii] $\frac{8}{9} \div 16 = \frac{8}{9} \times \frac{1}{16}$
 $= \frac{1}{8}$

[iv] $9\frac{1}{3} = 9 \times 3$
 $= 27$

[v] $24 \div \frac{6}{7} = 24 \times \frac{7}{6}$
 $= 4 \times 7 = 28$

[vi] $3\frac{3}{5} \div \frac{4}{5} = \frac{18}{5} \div \frac{4}{5}$
 $= \frac{18}{5} \times \frac{5}{4}$
 $= \frac{18}{4} = \frac{9}{2} = 4\frac{1}{2}$

[vii] $3\frac{3}{7} \div \frac{8}{21} = \frac{24}{7} \div \frac{8}{21}$
 $= \frac{24}{7} \times \frac{21}{8}$
 $= 33 = 9$

[viii] $5\frac{4}{7} \div 1\frac{3}{10} = \frac{39}{7} \div \frac{13}{10}$
 $= \frac{39}{7} \times \frac{10}{13}$
 $= \frac{30}{7} = 4\frac{2}{7}$

[ix] $15\frac{3}{7} \div 1\frac{23}{49}$
 $= \frac{108}{7} \div \frac{72}{49}$
 $= \frac{108 \times 49}{7 \times 72}$
 $= \frac{9 \times 7}{1 \times 6} = \frac{3 \times 7}{1 \times 2} = \frac{21}{2} = 10\frac{1}{2}$

3. Divide::

[i] $\frac{11}{24} \text{ By } \frac{7}{8}$
 $= \frac{11}{24} \times \frac{8}{7}$
 $= \frac{11}{21}$

[ii] $6\frac{7}{8} \text{ By } 1\frac{11}{16}$
 $= \frac{55}{8} \times \frac{16}{11}$
 $= 5 \times 2$

[iii] $5\frac{5}{9} \text{ By } 3\frac{1}{3}$
 $= \frac{50}{9} \times \frac{3}{10}$
 $= \frac{5}{3} = 1\frac{2}{3}$

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[iv] $32 \text{ By } 1\frac{3}{5}$

$$= 32 \times \frac{5}{8}$$

$$= 4 \times 5 = 20$$

[v] $45 \text{ By } 1\frac{4}{5}$

$$= 45 \times \frac{5}{9}$$

$$= 5 \times 5 = 25$$

[vi] $63 \text{ By } 2\frac{1}{4}$

$$= 63 \times \frac{4}{9}$$

$$= 7 \times 4 = 28$$

[4....] A Rope of length $13\frac{1}{2}$ meters Has Been Divided Into 9 Pieces of the Same Length what is the Length of Each Pieces??

⇒ The Length of Each Pieces of Rope is $1\frac{1}{2}$ meters

[5....] 18 Boxes of Nails weighs Equally And Their Total weight is $49\frac{1}{2}$ kg How Much Does Each Box weigh??

⇒ The weight of Each Box is $2\frac{3}{4}$ kg