Division of Fractions

A. Find the reciprocal of each of following fractions:-

i. $\frac{3}{7}$

ii. $\frac{9}{5} =$

iii. $\frac{1}{11} =$

iv. $\frac{5}{21} =$

v. $\frac{25}{8} =$

vi. $\frac{13}{5} =$

Also classify the new fractions as proper (P), improper (IP) and whole numbers (W).

B. Find the value of:-

i. $7 \div \frac{3}{5} =$ _____

ii. $6 \div \frac{7}{8} =$ _____

iii. $5\frac{1}{6} \div 2\frac{1}{2} =$ _____

iv. $\frac{4}{9} \div \frac{2}{3} =$ _____

v. $2\frac{1}{3} \div \frac{3}{5} =$ _____

vi. $\frac{2}{5} \div 1\frac{1}{2} =$ _____

C. Divide:-

i. $5\frac{1}{3}$ by 12

ii. $7\frac{2}{9}$ by 26

iii. $16\frac{2}{3}$ by $2\frac{2}{9}$

D. By what number should $5\frac{5}{8}$ be multiplied to get $37\frac{1}{2}$?

E. Mihir can cover a distance of $20\frac{5}{7}$ km in $6\frac{2}{3}$ hours on foot. How many km per hour does he walk?

F. If the cost of a silk chocolate is $70\frac{6}{7}$ how many chocolates can be purchased for $210\frac{4}{5}$?

G. The product of two fractions is $16\frac{1}{2}$. if one of the fractions is $16\frac{2}{3}$, find the other.

I. The area of a rectangular room is $67\frac{1}{2}$ square metres. If its breadth is $7\frac{1}{2}$ meters, find its length.
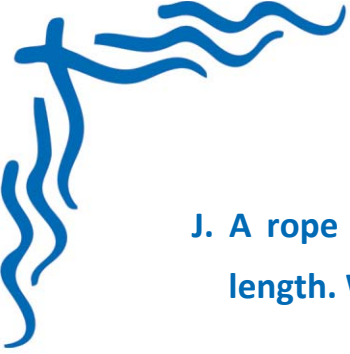
J. A rope of length $8\frac{3}{4}$ metres has been divided into 8 pieces of the same length. What is the length of each piece?

K. Kaveri reads $\frac{3}{7}$ of a book. He finds that there are still 56 pages left to be read. How many pages are there in the book?