



Grade 10

Mathematics

Fractions

1) Simplify

a) $3 \times \left(\frac{1}{2} - \frac{1}{3} \right)$

b) $\left(\frac{1}{2} \times \frac{1}{3} \right) \times 1\frac{1}{5}$

c) $\frac{\frac{3}{4} - \frac{1}{3}}{\frac{3}{4} \times \frac{1}{3}}$

d) $\frac{2\frac{1}{4} + 1\frac{1}{3}}{\frac{1}{4} - \frac{1}{6}}$

e) $3\frac{3}{8} - 5\frac{1}{2} + 4\frac{1}{4}$

f) $1\frac{3}{10} \div \left(\frac{1}{5} + \frac{2}{3} \right)$

g) $6 - \left[1\frac{1}{2} + 2\frac{1}{2} \right]$

h) $3\frac{1}{4} - \left(5\frac{1}{2} + 2\frac{2}{3} \right)$

2) Connect following fractions using the symbol "<"

$\frac{2}{3}, \frac{5}{13}, \frac{4}{7}$

3) Naveen had a small library. Out of the total number of books $\frac{1}{6}$ were child stories and $\frac{1}{4}$ were literature books. So he donated these books to the school.

- What fraction of the total did Naveen donate to school.
- If he donated 150 books, find the number of books that he had?
- Naveen gave 60 books to his neighbour and he sold rest. What fraction of the total did Naveen give to his neighbour.

- 4) $\frac{4}{5}$ of a tank was filled with water. When 150 l was removed there was $\frac{1}{2}$ of its volume. Find the capacity of the tank.
- 5) a) A man gave $\frac{1}{2}$ of a land to his wife and $\frac{1}{4}$ from the rest was sold. After that the remaining land was divided between son and daughter equally. Daughter got Rs. 600 000 worth land.
- 1) Find the value of the total land.
 - 2) Find the value of the land sold.
- b) Priyanthi travels $\frac{3}{5}$ of a certain distance by train and $\frac{1}{4}$ from the remaining by bus and the remaining 6 km by a three wheel. Find total distance.



agaram.lk