

NALANDA V Nalanda Vidyalaya – Colombo 10 da vidyalaya

NALANDA VIDYALAYA Unit Test Project AYA

NALANDA VIDYALAYA

Grade 10

Mathematics

Fractions

1) Simplify

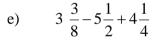
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a)
$$3 \times \left(\frac{1}{2} - \frac{1}{3}\right)$$

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



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 "<"

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

- 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.
 - i) What fraction of the total did Naveen donate to school.
 - ii) If he donated 150 books, find the number of books that he had?
 - iii) 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.
- 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.



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