



Nalanda College – Colombo 10

Unit Test

Mathematics – 2020

Grade - 8

Time – 01 hours

14 – Fractions (II)

(1) Write the reciprocal of following numbers.

(i) $4 \longrightarrow$ (ii) $3\frac{2}{5} \longrightarrow$ (iii) $1\frac{1}{3} \longrightarrow$ (iv) $\frac{5}{6} \longrightarrow$ (v) $\frac{1}{13} \longrightarrow$

(2) Simplify

(i) $\frac{1}{5} \div 3$

(vi) $\frac{2}{5} \div \frac{8}{25}$

(ii) $\frac{1}{3} \div 2$

(vii) $8 \div 1\frac{1}{2}$

(iii) $6 \div \frac{1}{4}$

(viii) $\frac{1}{4} \div 1\frac{1}{3}$

(iv) $8 \div \frac{4}{11}$

(ix) $5\frac{1}{4} \div 2\frac{1}{3}$

(v) $\frac{1}{3} \div \frac{1}{8}$

(x) $1\frac{3}{8} \div 1\frac{4}{7}$

(3) Fill in the blanks.

(i) $12 \div \square = 2$

(vi) $80 \div 5 = 80 \times \square$

(ii) $40 \div \square = 8$

(vii) $24 \div 3 = \square \times \frac{1}{3}$

(iii) $\frac{3}{5} \times \frac{5}{3} = \square$

(viii) $\frac{4}{7} \times \frac{\square}{3} \times \frac{1}{12} = \frac{4}{18}$

(iv) $\frac{6}{1} \times \frac{\square}{6} = 1$

(ix) $6\frac{1}{4} \times 2\frac{2}{5} = \square$

(v) $\frac{4}{7} \times \frac{7}{\square} = 1$

(x) $3\frac{1}{9} \times 1\frac{2}{7} \times \square = 1$

(4) The bottles were filled with $6\frac{3}{4}$ l amounts of disinfectant liquid $\frac{3}{4}$ l each. How many bottles can be filled ?

(5) How many pieces of wire of length $\frac{5}{12}$ m can be cut from a wire of $17\frac{1}{2}$ m ?