



Nalanda College – Colombo 10

3rd Term Test

Mathematics – 2020

Grade - 8

Time – 01 hours

13 - Fractions

(1) Represent each mixed numbers given below as an improper fraction

(i) $3\frac{1}{6}$ (ii) $8\frac{3}{5}$ (iii) $7\frac{5}{7}$ (iv) $16\frac{1}{2}$

(2) Represent each improper fractions given below as a mixed number.

(i) $\frac{12}{7}$ (ii) $\frac{32}{6}$ (iii) $\frac{19}{5}$ (iv) $\frac{47}{4}$

(3) Simplify the following.

(i) $\frac{7}{10} + \frac{2}{5}$ (ii) $3\frac{3}{4} + 2\frac{5}{8}$ (iii) $3 - 1\frac{5}{8}$

(iv) $1\frac{1}{2} + 5\frac{3}{8}$ (v) $3\frac{7}{8} + 1\frac{1}{2}$

(4) Express the product of each of the following in its simplest form.

(i) $\frac{3}{6} \times 2$ (ii) $\frac{1}{10} \times 5$ (iii) $2 \times \frac{3}{4}$ (iv) $0 \times \frac{2}{5}$

(5) Simplify the following.

(i) $\frac{7}{10} \times \frac{5}{14}$ (ii) $\frac{6}{7} \times \frac{21}{48}$

(iii) $\frac{5}{12} \times \frac{3}{10}$ (iv) $\frac{1}{2} \times \frac{3}{4} \times \frac{2}{6}$

(v) $2\frac{1}{2} \times \frac{2}{5}$ (vi) $\frac{3}{10} \times 2\frac{1}{3}$

(vii) $3\frac{3}{11} \times \frac{22}{3}$ (viii) $\frac{3}{4} \times \frac{2}{5} \times 1\frac{1}{6}$

(ix) $3\frac{3}{4} \times 1\frac{1}{5}$ (x) $7\frac{6}{7} \times 2\frac{4}{5}$

(6) Find the value of each of the following.

$$(i) \quad \frac{2}{3} \div 2 = \dots\dots\dots$$

$$(ii) \quad \frac{9}{10} \div 5 = \dots\dots\dots$$

$$(iii) \quad \frac{16}{25} \div 4 = \dots\dots\dots$$

$$(iv) \quad 2 \div \frac{2}{5} = \dots\dots\dots$$

$$(v) \quad 4 \div \frac{8}{10} = \dots\dots\dots$$

$$(vi) \quad 15 \div \frac{6}{10} = \dots\dots\dots$$

$$(vii) \quad \frac{3}{7} \div \frac{3}{14} = \dots\dots\dots$$

$$(viii) \quad \frac{2}{5} \div \frac{16}{10} = \dots\dots\dots$$

$$(ix) \quad \frac{7}{8} \div \frac{7}{10} = \dots\dots\dots$$

$$(x) \quad 7 \div 1\frac{1}{8} = \dots\dots\dots$$

$$(xi) \quad 2\frac{2}{6} \div \frac{13}{15} = \dots\dots\dots$$

$$(xii) \quad 2\frac{3}{5} \div \frac{1}{2} = \dots\dots\dots$$



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