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2nd Semester Mathematics – I Worksheet – II

Name: _____ Grade: 4 Section: _____ Roll No _____

Subject: **Mathematics - I** Date: _____

Instruction – I

Read the following properties carefully and do the exercises that follow.

I. Addition and subtraction of like fractions

1. For any two fractions, $\frac{a}{b}$ and $\frac{c}{b}$; the following property holds true.

$$\frac{a}{b} \pm \frac{c}{b} = \frac{a \pm c}{b}$$

Examples

1. $\frac{4}{5} + \frac{3}{5} = \frac{4+3}{5} = \frac{7}{5}$

2. $\frac{7}{3} - \frac{2}{3} = \frac{7-2}{3} = \frac{5}{3}$

II. Addition and subtraction of unlike fractions

2. For any two fractions, $\frac{a}{b}$ and $\frac{c}{d}$; the following property holds true.

$$\frac{a}{b} \pm \frac{c}{d} = \frac{(a \times d) \pm (b \times c)}{b \times d} = \frac{a \pm b}{b}$$

Examples

$$1. \frac{4}{3} + \frac{2}{5} = \frac{(4 \times 5) + (3 \times 2)}{(3 \times 5)} = \frac{20 + 6}{15} = \frac{26}{15}$$

$$2. \frac{6}{5} - \frac{2}{3} = \frac{(6 \times 3) - (5 \times 2)}{(5 \times 3)} = \frac{18 - 10}{15} = \frac{8}{15}$$

Exercise – 1

Compute the following questions.

$$1. \frac{1}{3} + \frac{7}{3} =$$

$$2. \frac{8}{5} - \frac{3}{5} =$$

$$3. \frac{7}{4} + \frac{2}{3} =$$

$$4. \frac{6}{5} + \frac{1}{2} =$$

$$5. \frac{5}{2} - \frac{3}{4} =$$

$$6. \frac{4}{3} - \frac{1}{2} =$$

II. Multiplication of fractions

3. For any two fractions, $\frac{a}{b}$ and $\frac{c}{d}$; the following is always true.

$$\frac{a}{b} \times \frac{c}{d} = \frac{a \times c}{b \times d} = \frac{a \times c}{b \times d}$$

Examples

$$1. \frac{3}{4} \times \frac{2}{3} = \frac{3 \times 2}{4 \times 3} = \frac{6}{12} = \frac{1}{2}$$

$$2. \frac{1}{3} \times \frac{5}{3} = \frac{1 \times 5}{3 \times 3} = \frac{5}{9}$$

$$3. \frac{2}{3} \times \frac{1}{2} \times \frac{3}{5} = \frac{2 \times 1 \times 3}{3 \times 2 \times 5} = \frac{6}{30} = \frac{1}{5}$$

IV. Division of fractions

4. For any two fractions, $\frac{a}{b}$ and $\frac{c}{d}$; the following property holds true.

$$\boxed{\frac{a}{b} \div \frac{c}{d} = \frac{a \times d}{b \times c} = \frac{a}{\frac{c}{d}}}$$

Examples

$$1. \frac{4}{3} \div \frac{2}{3} = \frac{(4 \times 3)}{(3 \times 2)} = \frac{12}{6} = 2$$

$$2. \frac{5}{2} \div \frac{3}{4} = \frac{(5 \times 4)}{2 \times 3} = \frac{20}{6} = \frac{10}{3}$$

Exercise – 2

Compute the following questions.

$$1. \frac{3}{2} \times \frac{5}{2}$$

$$2. \frac{4}{5} \div \frac{2}{5}$$

$$3. \frac{3}{2} \times \frac{1}{2} \times \frac{4}{3}$$

$$4. \frac{5}{3} \div \frac{1}{2}$$

$$5. \frac{3}{5} \times \frac{2}{3}$$

$$6. \frac{4}{2} \div \frac{4}{2}$$

Instruction – 2

Read your text book from page 110 up to 122 and write the meaning of the following Geometrical terms.

1. Point

2. Line

3. Ray

4. Line segment

5. Intersecting lines

6. Parallel lines

7. Plane
