1. **Compute:**

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

$$\frac{7}{15} - \frac{1}{5} =$$

$$\frac{5}{12} + \frac{4}{15} =$$

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

2. **Compare (>, <, or =):**

a) $\frac{4}{5}$ ☐ $\frac{3}{7}$ | b) $\frac{11}{16}$ ☐ $\frac{5}{12}$ c) $\frac{7}{12}$ ☐ $\frac{5}{9}$

3. Compute

a) $\frac{2}{5} \times \frac{3}{4} =$

b) $\frac{4}{7} \times \frac{3}{4} =$

c) $\frac{5}{8} \times \frac{4}{15} =$

d) $\frac{1}{7} \times ? = \frac{5}{63}$

e) $\frac{4}{9} \times ? = 1$

4. There was $\frac{1}{4}$ of the cake left after a Birthday party. Ann ate $\frac{2}{3}$ of the leftover cake. How much of the original cake did she eat?

5. Ann ate $\frac{1}{4}$ of the cake the first day, on the second day she ate $\frac{2}{3}$ of the leftover cake. How much of the whole cake did she eat altogether?

Reciprocal Fractions:

Two fractions are called reciprocal if their product is equal to 1.

$$\frac{3}{5} \times \frac{5}{3} = 1, \qquad \frac{a}{b} \times \frac{b}{a} = 1$$

6. Find reciprocal numbers of:

a) 5   b) 1000   c) $\frac{1}{x}$ d) $\frac{13}{17}$ e) -4   f) $-\frac{6}{21}$

Dividing fractions:

To divide a number (or a fraction) by a fraction we should multiply by its

reciprocal $\quad a : \frac{c}{d} = a \cdot \frac{d}{c}$

7.Calculate:

$\dfrac{3}{5} : \dfrac{27}{45} =$

$\dfrac{14a}{48} : \dfrac{8a}{42} =$

$\dfrac{3}{5} : \dfrac{11}{5} =$

$\dfrac{9}{10} x \dfrac{5}{12} =$