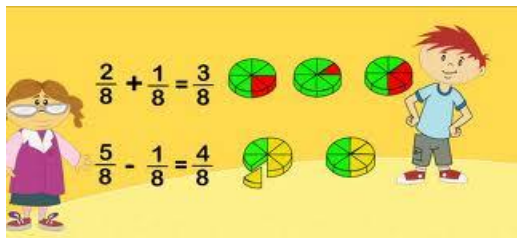
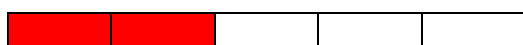




FRACCIONS – Sessió 6 : Operacions amb fraccions



Per sumar o restar fraccions amb el mateix denominador,
 es sumen els numeradors i es deixa el mateix denominador.



Per sumar o restar fraccions amb diferents denominador,
 primer hem de buscar fraccions equivalents amb el mateix denominador i després fem com hem dit amb les de mateix denominador.

$$\frac{2}{5} + \frac{3}{4} = \frac{8}{20} + \frac{15}{20} = \frac{23}{20} = 1 \frac{3}{20}$$

$$M5: 5, 10, 15, 20, 25$$

$$M4: 4, 8, 12, 16, 20 \quad MCM = 20$$

Suma o resta aquestes fraccions

$$\frac{2}{3} + \frac{1}{6} = \frac{4}{6} + \frac{1}{6} = \frac{5}{6}$$

$$M 3: 3, 6, 9, 12$$

$$M 6: 6, 9, 12$$

$$MCM = 6$$

$$\frac{4}{8} - \frac{4}{12} = \frac{12}{24} - \frac{8}{24} = \frac{4}{24} = \frac{4:4}{24:4} = \frac{1}{6}$$

$$M 8: 8, 16, 24, 32$$

$$M 12: 12, 24, 32$$

$$MCM = 12$$

$$\frac{1}{2} + \frac{4}{5} = \frac{5}{10} + \frac{8}{10} = \frac{13}{10}$$

$$M 2: 2, 4, 6, 8, 10, 12$$

$$M 5: 5, 10$$

$$MCM = 10$$

$$\frac{2}{6} + \frac{4}{9} = \frac{6}{18} + \frac{8}{18} = \frac{14}{18} = \frac{14:2}{18:2} = \frac{7}{9}$$

$$M 6: 6, 12, 18$$

$$M 9: 9, 18$$

$$MCM = 18$$

$$\frac{1}{8} + \frac{4}{8} = \frac{5}{8}$$

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

$$\frac{1}{3} + \frac{4}{5} = \frac{5}{15} + \frac{12}{15} = \frac{17}{15} = 1 \frac{2}{15}$$

M3: 3, 6, 9, 12, **15**

M5: 5, 10, **15**

MCM= 15

$$\frac{3}{2} + \frac{4}{6} = \frac{9}{6} + \frac{4}{6} = \frac{13}{6} = 2 \frac{1}{6}$$

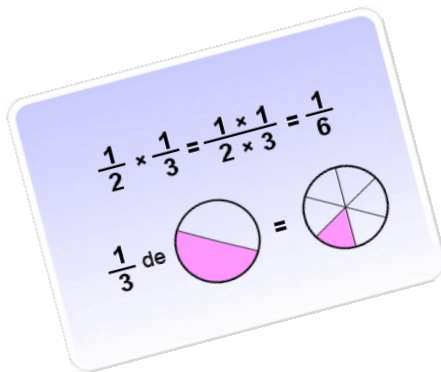
M 2: 2, 4, **6**, 8, 10, 12

M6: **6**, 12

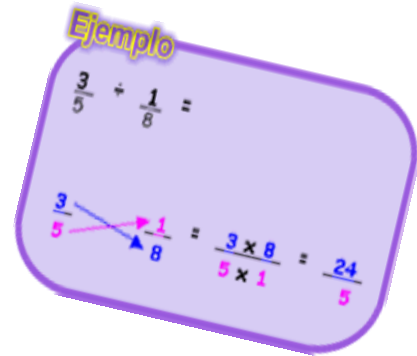
MCM= 6

$$\frac{12}{15} + \frac{4}{15} = \frac{16}{15} =$$

$$\frac{9}{10} - \frac{8}{10} = \frac{1}{10}$$



**Per multiplicar fraccions
multipliquem els numeradors
i els denominadors**



**Per dividir fraccions,
multipliquem en creu**

Fes aquestes operacions i simplifica si és possible

$$\frac{2}{3} \times \frac{1}{6} = \frac{2}{18} = \frac{2:2}{18:2} = \frac{1}{9}$$

$$\frac{4}{8} \times \frac{4}{5} = \frac{16}{40} = \frac{16:8}{40:8} = \frac{2}{5}$$

$$\frac{4}{10} : \frac{4}{5} = \frac{20}{40} = \frac{20:20}{40:20} = \frac{1}{2}$$

$$\frac{1}{2} \times \frac{4}{5} = \frac{4}{10} = \frac{4:2}{10:2} = \frac{2}{5}$$

$$\frac{2}{6} : \frac{4}{9} = \frac{18}{24} = \frac{18:6}{24:6} = \frac{3}{4}$$

$$\frac{2}{4} \times \frac{3}{5} = \frac{6}{20} = \frac{6:2}{20:2} = \frac{3}{10}$$

$$\frac{1}{3} : \frac{4}{5} = \frac{5}{12}$$

$$\frac{3}{9} \times \frac{4}{3} = \frac{12}{27} = \frac{12:3}{27:3} = \frac{4}{9}$$

$$\frac{4}{5} \times 10 = \frac{40}{5} = 8$$

$$3 : \frac{1}{2} = \frac{6}{1} = 6$$

$$5 \times \frac{2}{5} = \frac{10}{5} = 2$$

$$\frac{1}{4} : 2 = \frac{1}{8}$$

Si no hi ha denominador, és com si hi hagués un 1

$$2 = \frac{2}{1}$$