Cualquier multiplicación de Fracciones se puede tratar de la siguiente manera:

$$\frac{\alpha}{b} \cdot \frac{c}{b} = \alpha \cdot \frac{1}{b} \cdot c \cdot \frac{1}{b} = [\alpha c] \cdot (\frac{1}{b} \cdot \frac{1}{b})$$

$$= \alpha c \cdot \frac{1}{bd} = \frac{\alpha c}{bd}$$

Problemas (personal)

$$4.8) \quad 2 \cdot \frac{1}{3} = \frac{2}{3}$$

$$4.9$$
)
 $3.\frac{4}{5} = 3.4.\frac{1}{5} = 12.\frac{1}{5}$

4.10)
66666. 7.

(a)
$$66666.\frac{7}{6} = 66666.7.\frac{1}{6} = \frac{66666.7}{6}$$

$$4.11)$$
 $\frac{1}{3}$ $\frac{1}{2} = \frac{1}{6}$

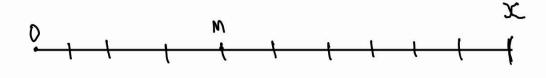
$$\frac{4.12}{3} \cdot \frac{4}{5} = \frac{2.4}{3.5} = \frac{8}{15}$$

$$\frac{4.13}{6} \cdot \frac{35}{6} \cdot \frac{48}{7} = \frac{35.48}{6.7} = \frac{5.8}{6.7}$$

$$(a) \frac{2}{3} \cdot 90 = 2 \cdot 30 = 60$$

$$(6) \frac{3}{4} \cdot \frac{11}{8} = \frac{33}{32}$$

Idea: Cuando multiplicamos por una Fracción, estamos dividiendo el número en n partes iguales y determinando la Posición m. $\left(\frac{m}{n} \cdot x\right)$



hay n lineas (includendo x).

$$4.15)$$
 $160.\frac{3}{5} = 32.3 = 96.$

$$96.\frac{3}{4} = 24.3 = 72$$

Ejercicios

$$(a) \frac{5}{6} \cdot \frac{11}{7} = \frac{5 \cdot 11}{6 \cdot 7} = \frac{55}{42}$$

$$(6) \frac{1}{5} \cdot (-75) \cdot \frac{2}{3} = -(15) \cdot (\frac{2}{3})$$

$$= -10$$

$$(c) \left(-\frac{86}{7}\right) \left(\frac{14}{9}\right) \left(\frac{63}{16}\right) = \frac{\cancel{5}0 \cdot \cancel{14} \cdot \cancel{6/3}}{\cancel{7} \cdot \cancel{9} \cdot \cancel{16}} = \boxed{70}$$

$$\frac{20.28 \cdot 26.24}{12.13 \cdot 14 \cdot 18} = 2^{4} = 16$$

$$\frac{3.8}{8.8} \times \frac{7.9.1}{3.5.7} = 1$$

$$\frac{4.2.4}{\cancel{4}} \cdot \frac{\cancel{8}}{\cancel{9}} \cdot \cancel{80} = 3.2.20 = 120$$

$$4.2.5$$
) $\frac{1}{2} \cdot \frac{1}{8} \cdot \frac{3}{4} \cdot \frac{4}{8} \cdot 100 = 20$

$$\frac{5}{8} \cdot \frac{8}{11} \cdot \frac{14}{11} \cdot \frac{14}{11} \cdot \frac{14}{120} \cdot \frac{26}{23} = \frac{5}{23}$$

$$4.2.7$$

$$(a) \frac{5}{6} \cdot ? = \frac{5}{7}$$

$$x = \frac{8}{7} \cdot \frac{6}{7} = \boxed{\frac{6}{7}}$$

(6)
$$\frac{5}{6} \cdot x = \frac{4}{7}$$

$$\frac{5}{8.7} - \frac{4}{7}$$

$$\frac{4.2.8}{b} = \frac{3}{4} \qquad \frac{b}{c} = \frac{11}{13}$$

$$\frac{a}{c} = ?$$

$$a = \frac{3b}{4} \qquad c = \frac{13b}{11}$$

$$\frac{3 \cdot 11}{4 \cdot 13} = \frac{33}{52}$$

$$\frac{36}{4} \div \frac{136}{11} = \frac{36}{4} \cdot \frac{11}{136}$$

$$= \frac{3 \cdot 11}{4 \cdot 12}$$