

Instituto Privado Mixto "Rafael Arévalo Martínez"



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Carrera: Administración de Empresas

Grado: Cuarto

Curso: Matemáticas

Contenido: Multiplicación y División de Fracciones

Ciclo Escolar: 2,021

Multiplicación y División de Fracciones

a) $\left(\frac{8}{3}\right)\left(\frac{5}{7}\right)\left(\frac{12}{6}\right) = \frac{480}{126} = \frac{240}{63} = \frac{80}{21}$

b) $\frac{3}{2} \cdot \frac{10}{3} \cdot \frac{9}{5} = \frac{270}{30} = \frac{135}{15} = \frac{45}{5} = \frac{9}{1} = 9$

c) $\left(\frac{2}{1}\right)\left(\frac{8}{6}\right)\left(\frac{12}{4}\right) = \frac{192}{24} = \frac{96}{12} = \frac{48}{6} = \frac{24}{3} = \frac{8}{1} = 8$

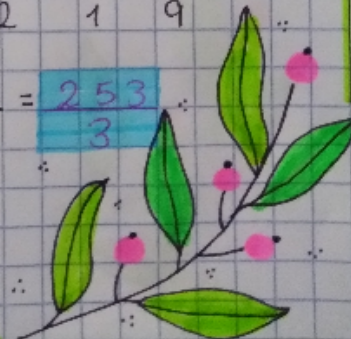
d) $\frac{28}{12} \cdot \frac{8}{9} = \frac{252}{96} = \frac{126}{48} = \frac{63}{24} = \frac{21}{8}$

e) $\frac{45}{2} \div \frac{3}{2} \div \frac{10}{2} = \frac{12}{900} = \frac{6}{450} = \frac{3}{225} = \frac{1}{75}$

f) $\frac{40}{12} \div \frac{10}{9} = \frac{360}{120} = \frac{180}{60} = \frac{90}{30} = \frac{45}{15} = \frac{15}{5} = \frac{3}{1} = 3$

g) $5\frac{3}{4} \cdot 4\frac{3}{2} \cdot (8) \cdot \frac{3}{9} = \frac{23}{4} \cdot \frac{11}{2} \cdot \frac{8}{1} \cdot \frac{3}{9} =$

$\frac{6,072}{72} = \frac{3,036}{36} = \frac{1,518}{18} = \frac{759}{9} = \frac{253}{3}$



$$h) \frac{8 \cdot 5 \cdot 12}{3 \cdot 7 \cdot 6} = \frac{90}{672} = \frac{45}{336} = \frac{15}{112}$$

$$i) \frac{52}{8} \cdot \frac{32}{4} \cdot (6) \frac{2}{9} = \frac{42}{8} \cdot \frac{14}{4} \cdot \frac{6}{1} \cdot \frac{2}{9} =$$

$$\frac{7056}{288} = \frac{3528}{144} = \frac{1764}{72} = \frac{882}{36} = \frac{441}{18} = \frac{147}{6} = \frac{49}{2}$$

$$j) \left(\frac{2}{1}\right) \left(\frac{8}{6}\right) \left(\frac{12}{4}\right) = \frac{192}{24} = \frac{96}{12} = \frac{48}{6} = \frac{24}{3} = \frac{8}{1} = 8$$

$$k) \frac{28}{12} \cdot \frac{8}{9} = \frac{252}{96} = \frac{126}{48} = \frac{63}{24} = \frac{21}{8}$$

$$l) \frac{45}{2} \cdot \frac{3}{2} \cdot \frac{10}{2} = \frac{12}{900} = \frac{6}{450} = \frac{3}{225} = \frac{1}{75}$$

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Vásquez

