



7º ano

Matemática

Tarefa 06 – Professor Regis

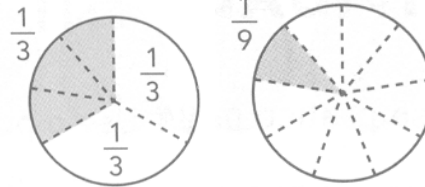
01. Analise as figuras ao lado:

a) Quantas vezes $\frac{1}{9}$ de uma pizza cabe em $\frac{1}{3}$ dessa pizza? _____

b) Indique a divisão correspondente. _____

c) Qual é o resultado das divisões seguintes?

- $\frac{1}{4} + \frac{2}{8} =$
- $\frac{1}{6} + \frac{2}{9} =$
- $\frac{1}{8} + \frac{3}{10} =$



02. Calcule as adições e subtrações de frações de mesmo denominador:

a) $\frac{7}{13} + \frac{2}{13} =$

c) $\frac{8}{15} - \frac{2}{15} =$

b) $\frac{9}{11} + \frac{10}{11} =$

d) $\frac{10}{3} - \frac{7}{3} =$

03. Calcule as adições e subtrações de frações de denominadores diferentes:

a) $\frac{1}{3} + \frac{2}{5} =$

c) $\frac{3}{2} - \frac{2}{3} =$

b) $\frac{3}{2} + \frac{2}{3} =$

d) $\frac{11}{12} - \frac{5}{8} =$

04. Calcule as operações abaixo com frações mistas.

a) $2\frac{2}{5} + \frac{11}{2} + \frac{1}{3} =$

b) $7\frac{2}{3} - 2\frac{5}{6} =$

05. Resolva as multiplicações abaixo.

a) $\frac{3}{4} \cdot \frac{1}{2} =$

c) $\frac{6}{5} \cdot \frac{25}{3} \cdot \frac{9}{2} =$

b) $\frac{2}{3} \cdot \frac{1}{4} \cdot \frac{8}{5} =$

d) $\frac{9}{7} \cdot \frac{3}{4} =$

06. Resolva as multiplicações abaixo utilizando a técnica do cancelamento.

a) $\frac{14}{5} \cdot \frac{2}{7} \cdot \frac{49}{6} =$

c) $\frac{8}{15} \cdot \frac{1}{3} \cdot \frac{45}{16} =$

b) $\frac{16}{15} \cdot \frac{7}{14} \cdot \frac{5}{8} =$

k) $\frac{18}{12} \cdot \frac{2}{28} \cdot \frac{22}{9} =$

07. Efetue as divisões:

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

c) $\frac{13}{49} : \frac{39}{14} =$

b) $\frac{4}{5} : 2 =$

d) $\frac{81}{5} : \frac{27}{25} =$



08. Resolva as divisões abaixo utilizando a técnica do cancelamento, quando escrever no formato de multiplicação de frações.

$$\text{a) } \frac{\frac{6}{2}}{7} =$$

$$\text{c) } \frac{\frac{4}{15}}{\frac{2}{3}} =$$

$$\text{b) } \frac{\frac{6}{5}}{2} =$$

$$\text{d) } \frac{\frac{12}{24}}{\frac{3}{8}} =$$

Nos exercícios 09, 10, 11 e 12 resolva as expressões numéricas.

$$09. \frac{1}{2} \cdot \left(\frac{1}{5} + \frac{1}{2} \cdot \frac{1}{3} \right) - \frac{1}{5} \cdot \left(\frac{1}{6} + \frac{1}{2} \cdot \frac{1}{5} \right) =$$

$$10. \frac{7}{6} - \left[\frac{3}{2} - \left(1 - \frac{1}{3} \right) + \left(1 - \frac{3}{4} \right) \right] =$$

$$11. \frac{3}{2} + \left(1 + \frac{1}{2} \right) \cdot \left(2 + 1\frac{1}{3} \right) \cdot \left(3 + \frac{1}{4} \right) =$$

12.

$$\text{a) } \frac{\frac{3}{2} \cdot \frac{4}{7} - \frac{3}{14} \cdot 2}{\frac{2}{3} \cdot \frac{3}{10} + \frac{7}{25} \cdot 5} + 4 =$$

$$\text{h) } \frac{11}{12} - \frac{5}{8} =$$

$$\text{o) } \frac{4}{5} - \frac{1}{2} =$$

$$\text{v) } 7\frac{2}{3} - 2\frac{5}{6} =$$

$$\text{b) } \frac{7}{2} + \frac{2}{3} =$$

$$\text{i) } 2\frac{2}{5} + \frac{11}{2} + \frac{1}{3} =$$

$$\text{p) } \frac{3}{4} + \frac{5}{6} - \frac{1}{2} =$$

$$\text{c) } 2 + \frac{1}{4} =$$

$$\text{j) } \frac{7}{12} + \frac{5}{18} =$$

$$\text{q) } 1\frac{4}{5} - 1\frac{2}{3} + \frac{7}{10} =$$

$$\text{d) } 3\frac{1}{5} + 2\frac{3}{5} =$$

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

$$\text{r) } \frac{1}{2} - \frac{1}{3} + \frac{5}{6} - \frac{3}{4} =$$

$$\text{e) } \frac{5}{3} + \frac{4}{5} + \frac{7}{15} =$$

$$\text{l) } \frac{9}{4} + \frac{2}{3} + \frac{5}{12} =$$

$$\text{s) } \frac{1}{2} + \frac{1}{3} + \frac{5}{6} =$$

$$\text{f) } 4 - \frac{1}{7} =$$

$$\text{m) } \frac{3}{2} - \frac{2}{3} =$$

$$\text{t) } 1\frac{1}{2} + 2 - \frac{9}{10} =$$

$$\text{g) } \frac{9}{10} - \frac{4}{5} =$$

$$\text{n) } \frac{3}{2} - \frac{1}{4} =$$

$$\text{u) } \frac{4}{5} + \frac{1}{2} - \frac{5}{8} =$$



13. Efetue as multiplicações:

a) $\frac{3}{4} \cdot \frac{1}{2} =$

e) $\frac{2}{3} \cdot \frac{1}{4} \cdot \frac{8}{5} =$

i) $\frac{6}{5} \cdot \frac{25}{3} \cdot \frac{9}{2} =$

b) $\frac{9}{7} \cdot \frac{3}{4} =$

f) $\frac{14}{5} \cdot \frac{2}{7} \cdot \frac{49}{6} =$

j) $\frac{16}{15} \cdot \frac{7}{14} \cdot \frac{5}{8} =$

c) $\frac{8}{5} \cdot \frac{7}{8} =$

g) $\frac{8}{15} \cdot \frac{1}{3} \cdot \frac{45}{16} =$

k) $\frac{18}{12} \cdot \frac{2}{28} \cdot \frac{22}{9} =$

d) $\frac{17}{7} \cdot \frac{4}{17} =$

h) $\frac{3}{7} \cdot \frac{4}{9} \cdot \frac{14}{3} =$

l) $\frac{147}{18} \cdot \frac{9}{49} \cdot \frac{4}{21} =$

14. Efetue as divisões:

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

f) $\frac{4}{5} : 2 =$

k) $\frac{13}{49} : \frac{39}{14} =$

p) $\frac{81}{5} : \frac{27}{25} =$

b) $\frac{7}{9} : \frac{14}{3} =$

g) $\frac{10}{3} : \frac{5}{9} =$

l) $\frac{64}{27} : \frac{128}{81} =$

q) $\frac{14}{3} : 2\frac{1}{3} =$

c) $\frac{3}{4} : \frac{3}{8} =$

h) $2 : \frac{4}{5} =$

m) $\frac{6}{15} : \frac{2}{3} =$

r) $2\frac{1}{4} : 3\frac{4}{7} =$

d) $\frac{24}{5} : \frac{12}{15} =$

i) $\frac{100}{34} : \frac{25}{17} =$

n) $\frac{42}{5} : \frac{7}{3} =$

s) $\frac{\frac{2}{3}}{\frac{4}{5}} =$

e) $\frac{\frac{6}{2}}{7} =$

j) $\frac{\frac{6}{5}}{2} =$

o) $\frac{\frac{4}{15}}{\frac{2}{3}} =$

t) $\frac{\frac{12}{24}}{\frac{3}{8}} =$

15. Calcule:

a) $\left(\frac{1}{2}\right)^2 =$

e) $\left(\frac{3}{2}\right)^2 =$

i) $\left(\frac{1}{2}\right)^3 =$

m) $\left(\frac{7}{8}\right)^3 =$

b) $\left(\frac{1}{3}\right)^4 =$

f) $\left(1\frac{1}{2}\right)^3 =$

j) $\left(2\frac{7}{4}\right)^2 =$

n) $\left(\frac{2}{5}\right)^4 =$

c) $\left(\frac{2}{3}\right)^0 =$

g) $\left(\frac{4}{3}\right)^2 =$

k) $\left(3\frac{1}{3}\right)^3 =$

o) $\left(\frac{2}{7}\right)^1 =$

d) $\left(\frac{2}{3}\right)^5 =$

h) $\left(\frac{11}{9}\right)^0 =$

l) $\left(\frac{5}{6}\right)^2 =$

p) $\left(\frac{6}{5}\right)^1 =$



16. Calcule o valor das expressões numéricas:

$$a) \left(\frac{3}{2} - \frac{2}{5}\right) + \left(\frac{5}{4} - \frac{2}{3}\right) =$$

$$i) \left(\frac{3}{4} + \frac{4}{3}\right) \cdot \left(\frac{8}{7} - \frac{7}{8}\right) =$$

$$b) \left(\frac{7}{8} - \frac{5}{6}\right) + \left(\frac{8}{9} - \frac{7}{9}\right) =$$

$$j) \frac{1}{2} \cdot \frac{3}{5} - \frac{1}{3} \cdot \frac{2}{5} + \frac{3}{2} \cdot \frac{7}{3} =$$

$$c) 1 + \left(\frac{1}{2} - \frac{1}{5}\right) - \left(\frac{7}{4} - \frac{5}{4}\right) =$$

$$k) 7 - \left[\frac{11}{2} - \frac{13}{4} \cdot \left(\frac{1}{2} + \frac{1}{5}\right)\right] =$$

$$d) \left(\frac{1}{3} + \frac{1}{4}\right) + \left(2 - \frac{1}{2} + \frac{1}{6}\right) =$$

$$l) \frac{1}{2} \cdot \left(\frac{1}{5} + \frac{1}{2} \cdot \frac{1}{3}\right) - \frac{1}{5} \cdot \left(\frac{1}{6} + \frac{1}{2} \cdot \frac{1}{5}\right) =$$

$$e) \frac{7}{6} - \left[\frac{3}{2} - \left(1 - \frac{1}{3}\right) + \left(1 - \frac{3}{4}\right)\right] =$$

$$m) \frac{3}{2} + \left(1 + \frac{1}{2}\right) \cdot \left(2 + 1\frac{1}{3}\right) \cdot \left(3 + \frac{1}{4}\right) =$$

$$f) \left[\left(\frac{1}{2} + \frac{1}{3}\right) + \frac{1}{4} - \left(1 - \frac{5}{8}\right)\right] + \frac{2}{3} =$$

$$n) \frac{\frac{3}{2} \cdot \frac{4}{7} - \frac{3}{14} \cdot 2}{\frac{2}{3} \cdot \frac{3}{10} + \frac{7}{25} \cdot 5} + 4 =$$

$$g) \left(\frac{3}{2} + \frac{2}{5}\right) - \left(\frac{5}{4} - \frac{2}{3}\right) =$$

$$o) \left(\frac{1}{3} \cdot \frac{3}{5} + \frac{10}{7} \cdot \frac{7}{5}\right) : \left(2 - \frac{1}{2} \cdot \frac{3}{4}\right) =$$

$$h) \left[\frac{12}{169} \cdot \left(\frac{13}{2}\right)^2 : \frac{3}{5} + 1\right]^2 - \frac{11}{4} =$$

$$p) \left[\left(\frac{3}{5}\right)^2 : \frac{27}{25}\right] : \frac{1}{6} =$$