

data  
 fecha 25.03.21

Muito bom !!!!

Nome: Gabriel Gonçalves de Oliveira RA: 2111550021  
 Professora: Marisa Atsuko Nitto - Matemática - 1ª ADS

Lista de Exercícios - Matemática 1 - Prazo 25/03/21

1) Calcular o ~~MMC~~ MMC (mínimo múltiplo comum) entre os números:

a) 12, 16 e 45	2	MMC=720	b) 20, 35, 45	2	MMC=1260
6, 8, 45	2		10, 35, 45	2	
3, 4, 45	2		5, 35, 45	3	
3, 2, 45	2		5, 35, 15	3	
3, 1, 45	3		5, 35, 5	5	
1, 1, 15	3		1, 7, 1	7	
1, 1, 5	5		1, 1, 1	1260	
1, 1, 1	720				

c) 60, 15, 20, 12	2	MMC=60	d) 36, 45	2	MMC=180
30, 15, 10, 6	2		18, 45	2	
15, 15, 5, 3	3		9, 45	3	
5, 5, 5, 1	5		3, 15	3	
1, 1, 1, 1	60		1, 5	5	
			1, 1	180	

2) Efetuar as operações dadas:

a)  $-15 + 28 + (-50) - 15 = +28 - 80 = -52$

b)  $33 + (-27) - (-35) + (-47) = +68 - 74 = -6$

c)  $-85 + (-130) + (-155) + 50 = +50 - 370 = -320$

d)  $-\frac{1}{3} \times \frac{7}{2} = -\frac{7}{6}$  e)  $-\frac{5}{2} \times \frac{7}{5} \times \frac{9}{8} \times \frac{1}{2} = -\frac{315}{160} = -\frac{63}{32}$



$$f) \begin{pmatrix} 3 \\ 2 \end{pmatrix} + \begin{pmatrix} 8 \\ 3 \end{pmatrix} = \frac{3 \div 5}{2 \times 4} + \frac{8 \div 7}{3 \times 2} = \frac{12}{10} + \frac{-16}{21}$$

$$\begin{array}{r|l} 10, 21 & 2 \\ 5, 21 & 3 \\ 5, 7 & 5 \\ 1, 7 & 7 \\ 1, 1 & 210 \end{array} \quad \frac{12}{10} + \frac{-16}{21} = \frac{252 - 160}{210} = \frac{92}{210} = \frac{46}{105}$$

$$g) \frac{2}{1} + \frac{3}{5} - \frac{7}{1} = \frac{10 + 3 - 35}{5} = -\frac{22}{5}$$

$$h) \frac{5}{2} - \frac{7}{8} + \frac{9}{10} = \frac{100 - 35 + 36}{40} = \frac{101}{40} = +\frac{101}{40}$$

$$i) -18 - 3 + 5 + 7 = -21 + 12 = -9$$

$$j) \frac{13}{5} - \frac{7}{8} + \frac{5}{3} + \frac{10}{12} = \frac{312 - 105 + 200 + 100}{120}$$

$$= \frac{+612 - 105}{120} = \frac{+507}{120} = \frac{169}{40}$$

$$\begin{array}{r|l} 5, 8, 3, 12 & 2 \\ 5, 4, 3, 6 & 2 \\ 5, 2, 3, 3 & 2 \\ 5, 1, 3, 3 & 3 \\ 5, 1, 1, 1 & 5 \\ 1, 1, 1, 1 & 120 \end{array}$$

$$k) \frac{6}{5} + \frac{1}{2} - \frac{8}{7} - \frac{9}{3} + \frac{5}{10} = \frac{+252 + 105 - 240 - 630 + 105}{210}$$

$$+ \frac{252 + 105 - 240 - 630 + 105}{210} = \frac{+462 - 870}{210}$$

$$\begin{array}{r|l} 5, 2, 7, 3, 10 & 2 \\ 5, 1, 7, 3, 5 & 3 \\ 5, 1, 7, 1, 5 & 5 \\ 1, 1, 7, 1, 1 & 7 \\ 1, 1, 1, 1, 1 & 210 \end{array}$$

$$= \frac{-408}{210 \div 2} = \frac{-204}{105 \div 3} = \frac{-68}{35}$$



3) Resolver as operações dadas:

a)  $\frac{(-4) \times (-2)}{-2} = \frac{+8}{-2} = -4$

b)  $\frac{(-1+3-5)}{-1} \times \frac{(2-7)}{-1} = \frac{(-3)}{-1} \times \frac{(-5)}{-1} = \frac{+15}{-1} = -15$

c)  $\frac{+2+3-44-2+35-3}{-1} = \frac{+40-49}{-1} = \frac{-9}{-1} = +9$

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

2,3,4	2
1,3,2	2
1,3,1	3
1,1,1	12

$\left( \frac{+6+4+3}{12} \right) \div \left( \frac{8+9}{12} \right) = \left( \frac{+13}{12} \right) \div \left( \frac{+17}{12} \right) =$

$\frac{+13}{12} \div \frac{17}{12} = \frac{+156}{204} \div \frac{17}{17} = \frac{+39}{51} = \frac{+13}{17}$

Gabriel Gonçalves de Oliveira 211550021-1º ADS

outra forma de fazer --> o resultado final já fica simplificado

$\frac{13}{12} : \frac{17}{12} = \frac{13 \times 12}{12 \times 17} = \frac{13}{17}$

"barrigão"

"barriguinha"