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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
6, 8, 45	2	
3, 4, 45	2	
3, 2, 45	2	
3, 1, 45	3	
1, 1, 15	3	
1, 1, 5	5	
1, 1, 1	720	

b)

20, 35, 45	2	MMC = 1260
10, 35, 45	2	
5, 35, 45	3	
5, 35, 15	3	
5, 35, 5	5	
1, 7, 1	7	
1, 1, 1	1260	

c)

60, 15, 20, 12	2	MMC = 60
30, 15, 10, 6	2	
15, 15, 5, 3	3	
5, 5, 5, 1	5	
1, 1, 1, 1	60	

d)

36, 45	2	MMC = 180
18, 45	2	
9, 45	3	
3, 15	3	
1, 5	5	
1, 1	180	

2) Efetuar as operações dadas:

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

b) $33 + (-27) \overset{+}{-} (-35) + (-47) = +68 - 74 = -6$

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

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

f)
$$\frac{\left(\dfrac{3}{2}\right)}{\left(\dfrac{5}{4}\right)} + \frac{\left(\dfrac{8}{3}\right)}{\left(\dfrac{7}{-2}\right)} = \frac{3}{2} \div \frac{5}{4} + \frac{8}{3} \div \frac{7}{-2} = \frac{12}{10} + \left(\frac{-16}{21}\right)$$

$$
\begin{array}{ll}
10,\ 21 & 2 \\
5,\ 21 & 3 \\
5,\ 7 & 5 \\
1,\ 7 & 7 \\
1,\ 1 & 210
\end{array}
$$

$$\frac{12}{10} + \left(\frac{-16}{21}\right) = \frac{252-160}{210} = +\frac{92:2}{210:2} = +\frac{46}{105}$$

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

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

$$
\begin{array}{ll}
2,8,10 & 2 \\
1,4,5 & 2 \\
1,2,5 & 2 \\
1,1,5 & 5 \\
1,1,1 & 40
\end{array}
$$

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

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

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

$$= \frac{+612-105}{120} = +\frac{507:3}{120:3} = +\frac{169}{40}$$

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

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

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

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

3) Resolver as operações dadas:

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

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

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

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

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

$\left(\dfrac{+6+4+3}{12}\right) \div \left(\dfrac{8+9}{12}\right) = \left(\dfrac{+13}{12}\right) \overset{\div}{\underset{\times}{}} \left(\dfrac{+17}{12}\right) =$

$+\dfrac{13}{12} \times \dfrac{17}{12} = +\dfrac{156 : 4}{204 : 4} = +\dfrac{39 : 3}{51 : 3} = +\dfrac{13}{17}$ „

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