

Aluno(a) ● ● ●

Disciplina

Matemática

Professor(a)

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Ano

8º

Turma

Data

27/01

Lista nº 01 – Gabarito

$$\begin{aligned}
 1. & -5 - [3.(7 - 5 - 3) - 22 : 11] = \\
 & -5 - [3.(2 - 3) - 22 : 11] = \\
 & -5 - [3.(-1) - 22 : 11] = \\
 & -5 - [-3 - 22 : 11] = \\
 & -5 - [-3 - 2] = \\
 & -5 - [-5] = \\
 & -5 + 5 = 0.
 \end{aligned}$$

$$\begin{aligned}
 2. a) & 18 + 4.[-6 - 4.(-5 + 6)] = \\
 & 18 + 4.[-6 - 4.(+1)] = \\
 & 18 + 4.[-6 - 4] = \\
 & 18 + 4.[-10] = \\
 & 18 - 40 = -22.
 \end{aligned}$$

$$\begin{aligned}
 b) & 2 - 3.[1 - (2 - 8 + 4.2) - 5] = \\
 & 2 - 3.[1 - (2 - 8 + 8) - 5] = \\
 & 2 - 3.[1 - (-6 + 8) - 5] = \\
 & 2 - 3.[1 - (+2) - 5] = \\
 & 2 - 3.[1 - 2 - 5] = \\
 & 2 - 3.[-1 - 5] = \\
 & 2 - 3.[-6] = \\
 & 2 + 18 = 20.
 \end{aligned}$$

$$\begin{aligned}
 3. & 3x + 4.(1 + x) + 2 = 5x - x - 6 \\
 & 3x + 4 + 4x + 2 = 4x - 6 \\
 & 3x + 4x - 4x = -6 - 4 - 2 \\
 & 3x = -12 \\
 & x = -12/3 \\
 & x = -4.
 \end{aligned}$$

$$\begin{aligned}
 4. a) & -0,008. \\
 b) & 1/81. \\
 c) & 1\,000\,000. \\
 d) & 3/8. \\
 e) & 1. \\
 f) & 1/10\,000.
 \end{aligned}$$

$$\begin{aligned}
 5. & \frac{3}{4} + \left(\frac{1}{5}\right)^0 + \left(-\frac{1}{2}\right)^2 = \\
 & \frac{3}{4} + 1 + \left(+\frac{1}{4}\right) = \\
 & \frac{3}{4} + 1 + \frac{1}{4} = \\
 & \frac{3}{4} + \frac{4}{4} + \frac{1}{4} = \\
 & \frac{8}{4} = 2.
 \end{aligned}$$

6. a) $\frac{45}{100} = \frac{9}{20}$.

b) $\frac{80}{100} = 0,80$ ou $0,8$.

c) $\frac{8}{100} = \frac{2}{25}$.

d) $\frac{120}{100} = \frac{6}{5} = 1 \frac{1}{5}$.

7. a) $\frac{7}{20} = \frac{35}{100} = 35\%$.

b) $\frac{8}{25} = \frac{32}{100} = 32\%$.

8. a) $20\% \text{ de } 120 = 120 : 100 \cdot 20 = 1,2 \cdot 20 = 24$.

b) $25\% \text{ de } 800 = 800 : 100 \cdot 25 = 8 \cdot 25 = 200$.

c) $50\% \text{ de } 250 = 250 : 100 \cdot 50 = 2,5 \cdot 50 = 125$.

d) $75\% \text{ de } 400 = 400 : 100 \cdot 75 = 4 \cdot 75 = 300$.

9. a) $15\% \text{ de } 4\,352 = 4\,352 : 100 \cdot 15 = 43,52 \cdot 15 = 652,80$. O desconto será de R\$ 652,80.

b) $4\,352,00 - 652,80 = 3\,699,20$. O preço da mercadoria à vista será R\$ 3 699,20.

10. $\frac{14}{20} = \frac{70}{100} = 70\%$. Acertou 70%.

$100\% - 70\% = 30\%$. Errou 30%. Leonardo acertou 70% das questões e errou 30%.