



Nome: _____ n° _____ Turma 9A

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Data: 02/09/2021

Ensino Fundamental I
e II

Juros Compostos – 3º Bimestre

Cap.7 – Matemática Financeira – pág.162

Correção-Aula 14

- 1) $180 \cdot 0,2 = 36 + 180 = 216$
 $216 \cdot 0,2 = 43,20 + 216 = 259,20$
 $259,20 \cdot 0,5 = 259,20 - 129,60 = \text{R\$129,60 (c)}$
- 2) $100\% + 12\% = 112\%$
 $112\% + 20\% = 22,40 + 112 = 134,40 - 100 = \text{34,4\%}$
- 3) $40 \cdot 0,3 = 12 + 40 = 52$
 $52 \cdot 0,2 = 10,40 + 52 = \text{R\$62,40}$
- 4) a) $20000 \cdot 0,10 = 20000 - 2000 = 18000$
 $18000 \cdot 0,05 = 18000 - 900 = \text{R\$17100,00}$
b) $20000 = 100\%$
 $17100 = x$
 $x = \frac{17100 \cdot 100}{20000} = \frac{1710000}{20000} = 85,50$
 $100 - 85,50 = \text{14,5\%}$
- 5) $2300 \cdot 0,15 = 2300 - 345 = 1955$
 $1955 = 100\%$
 $1564 = x$
 $x = \frac{1564 \cdot 100}{1955} = \frac{156400}{1955} = 80\%$
 $100\% - 80\% = \text{20\%}$
- 6) $100 \cdot 0,3 = 100 - 30 = 70$
 $70 \cdot 0,3 = 70 - 21 = 49$
 $100 = 100\%$
 $49 = x$
 $x = \frac{49 \cdot 100}{100} = \frac{4900}{100} = 49$
 $100\% - 49\% = \text{51\%}$
- 7) $2000 \cdot 0,1 = 2000 - 200 = 1800$
 $1800 = 100\%$
 $1530 = x$
 $x = \frac{1530 \cdot 100}{1800} = \frac{153000}{1800} = 85$
 $100\% - 85\% = \text{15\%}$

$$8) 100 \cdot 0,4 = 100 + 40 = 140$$

$$140 \cdot 0,2 = 140 - 28 = 112$$

$$112\% - 100\% = \mathbf{12\%}$$

$$9) J = c \cdot i \cdot t$$

$$J = 10000 \cdot 0,05 \cdot 15$$

$$J = 7500$$

$$M = C + J$$

$$M = 10000 + 7500 = \mathbf{R\$17500,00}$$

$$10) 30 = 100\%$$

$$x = 70\%$$

$$x = \frac{30 \cdot 70}{100} = \frac{2100}{100} = 21 \text{ aritmética}$$

$$80 = 100\%$$

$$x = 80\%$$

$$x = \frac{80 \cdot 80}{100} = \frac{6400}{100} = 64$$

$$64 - 21 = 43$$

$$50 = 100\%$$

$$43 = x$$

$$x = \frac{43 \cdot 100}{50} = \frac{4300}{50} = \mathbf{86\%}$$

$$11) J = c \cdot i \cdot t$$

$$J = 1200 \cdot 0,006 \cdot 12 = \mathbf{R\$86,40 (c)}$$

$$12) 240 = 40\%$$

$$x = 100\%$$

$$x = \frac{240 \cdot 100}{40} = \frac{24000}{40} = 600$$

$$600 = 60\%$$

$$x = 100\%$$

$$x = \frac{600 \cdot 100}{60} = \frac{60000}{60} = \mathbf{R\$1000,00}$$