



Ensino Fundamental I
e II

Nome: _____ n° _____ Turma 9A

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Juros Compostos – 3º Bimestre

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Correção-Aula 11

1) $C = 10000$

$t = 12$ meses

$i = 6\% \text{ a.a} = \frac{0,06}{12} = 0,005$

$$M = c \cdot (1+i)^t$$

$$M = 10000 \cdot (1+0,005)^{12}$$

$$M = 10000 \cdot (1,005)^{12}$$

$$M = 1,06$$

$$M = 10600$$

$$J = M - C$$

$$J = 10600 - 10000$$

$$\mathbf{J = R\$600,00}$$

2) $C = 1000$

$t = 4$ meses

$M = 1340$

$$M = c \cdot (1+i)^t$$

$$1340 = 1000 \cdot (1+i)^4$$

$$\frac{1340}{1000} = (1+i)^4$$

$$1,34 = (1+i)^4$$

$$\sqrt[4]{1,34} = (1+i)$$

$$1,075 = 1+i$$

$$1,075 - 1 = i$$

$$\mathbf{0,075 = i = 7,5\%}$$

3) $M = ?$

$c = 15000$

$i = 10\% = 0,1 \text{ a.m}$

$t = 3$ meses

$$M = c \cdot (1+i)^t$$

$$M = 15000 \cdot (1+0,1)^3$$

$$M = 15000 \cdot (1,1)^3$$

$$M = 15000 \cdot 1,33$$

$$\mathbf{M = R\$19950,00}$$

4) $c = 200$

$i = 1\% \text{ a.m} = 0,01$

$t = 3$ meses

$$M = c \cdot (1+i)^t$$

$$M = 200 \cdot (1+0,01)^3$$

$$M = 200 \cdot (1,01)^3$$

$$M = 200 \cdot 1,03$$

$$\mathbf{M = R\$206,00}$$

5) $M = c.(1+i)^t$

$$M = 12000.(1+0,01)^3$$

$$M = 12000.(1,01)^3$$

$$M = 12000.1,03$$

$$\mathbf{M = R\$12360,00}$$

6) $M = c.(1+i)^t$

$$M = 5000.(1+0,02)^3$$

$$M = 5000.(1,02)^3$$

$$M = 5000.1,06$$

$$\mathbf{M = R\$5300,00}$$