

AREA: ARITMÉTICA
 TEMA: FRACCIONES Y RAZONES
 PROPORCIONES

* FRACCIONES

DE, DEL = MULTIPLICAR

COMO, E = IGUALDAD

POR = DIVIDIR
 CANT. INICIAL

GASTO + NO GASTO
 CONSUMO

QUEDA
 RESTA: SOBRA
 CANT. ACTUAL

* RAZONES

ARITMÉTICA

$a - b = r$

RAZÓN ARIT

GEOMÉTRICA

$\frac{a}{b} = q$

RAZÓN GEOM.

* PROPORCIONES

	ARITMÉTICA	GEOMÉTRICA
CONTINUA	$a - b = b - c$	$\frac{a}{b} = \frac{b}{c}$
	b: MEDIA DIFERENCIAL	c: TERCERA PROP. DIFERENCIAL
	c: TERCERA DIFERENCIAL	a, b: ANTECEDENTES
		b, c: CONSECUENTES
		a, c: EXTREMOS
		b: MEDIA PROPORCIONAL
DISCRETA	$a - b = c - d$	$\frac{a}{b} = \frac{c}{d}$
	c: TERCERA DIFERENCIAL	c: TERCERA PROPORCIONAL
	d: CUARTA DIFERENCIAL	d: CUARTA PROPORCIONAL

01 Método "RA"
 $i = \frac{980}{100} \rightarrow 2.3.5$
 $\frac{980}{100} \rightarrow 2.3.5$
 $\frac{980}{100} \rightarrow 2.3.5$

03 $\frac{x}{y} = \frac{x}{y}$ X, Y: PRIMO

$$\frac{x}{y} + \frac{y}{x} = \frac{34}{15}$$

$$\frac{(x^2 + y^2)}{xy} = \frac{34}{15}$$

$$x = 3; y = 5$$

04 C INICIAL \rightarrow X

	VENDE	QUEDA
1 ^o	$\frac{2}{7}$	$\frac{5}{7}$
2 ^o	$\frac{2}{7}$	$\frac{5}{7}$

$$Q(x) = \frac{5}{7} \cdot \frac{5}{8} (x)$$

$$Q = \frac{25}{56}$$

05 CANT NATALY: X

	GASTA	QUEDA
Lunes	$\frac{3}{7}$	$\frac{4}{7}$
Martes	$\frac{2}{7}$	$\frac{5}{7}$

$$\frac{1}{4} \cdot \frac{5}{7} (x) = \frac{10}{7}$$

$$(x = 50)$$

06 CANT. INICIAL WILSON: "a"

FELIX; HENRY; MAURO

$$\frac{a}{9} + \frac{a}{3} + \frac{a}{6} + 1800 = a$$

$$3a + 9a + 2a + 12.1800 = a$$

$$9a + 12.1800 = 12a$$

$$12.1800 = 3a$$

$$4200 = a$$

= MAURO

$$1800 = 1800$$

07 $H_f = H_o \cdot f^n$

$$48 = H_o \cdot \left(\frac{2}{3}\right)^2$$

$$48 = H_o \cdot \frac{4}{9}$$

$$162 = H_o$$

$$D_{TOTAL} = H_o + 2H_o$$

$$D_{TOTAL} = 162 + 2.162$$

$$D_{TOTAL} = 162(1 + 4)$$

$$D_{TOTAL} = 810m$$

PERDIDA = $\frac{1}{3}x$

$$QUEDA = \frac{2}{3}$$

$$48 = H_o \cdot \left(\frac{2}{3}\right)^2$$

$$48 = H_o \cdot \frac{4}{9}$$

$$162 = H_o$$

$$D_{TOTAL} = H_o + 2H_o$$

$$D_{TOTAL} = 162 + 2.162$$

$$D_{TOTAL} = 162(1 + 4)$$

$$D_{TOTAL} = 810m$$

ALY: (X) 9

QUEDA
(1/4)
(5/7)

10³

WILSON: "2"

1800 = a

21800 = a

0 = 12a

= 3a

(a)

TIEMPO

1800 = 1800³

$H_f = H_0 \cdot f^n$

48 = H₀ · (2/3)³

48 = H₀ · 8/27

162 = H₀

D_{TOTAL} = H₀ + 24 (FONCIÓN FALTA FERRA)

D_{TOTAL} = 162 + 2162 (2/3)

D_{TOTAL} = 162(1+4)

D_{TOTAL} = 810 m

A = 200 → 10 = 1/20

B = 150 → 10 = 1/15

C = 100 → 10 = 1/10

2(1/20) + 2(1/20 + 1/15) + (1/20 + 1/15 + 1/10) = 1

(1/10) + (1/10 + 2/15) + (3+4+6)/60 X = 1

1/5 + 2/15 + 13X/60 = 1

3+2 + 13X = 60

13X = 1 - 1/3

13X/60 = 2/3 → X = 90/13

TIEMPO TOTAL

1 + 40/13 → 52/13

92/13 → 7 1/13

30 LLENADO +

1 CAÑO 7h → 1h = 1/7

2 CAÑO 6h → 1h = 1/6

1 CAÑO 8h → 1h = 1/8

2 CAÑO 12h → 1h = 1/12

9(1/4 + 1/6) + X(1/4 + 1/6 + 1/8 + 1/12) = 1

(1/2 + 1/3) + X(6+4-3-2)/24 = 7/8

5X = 7 - 5/6

5X = 21 - 20/24 → X = 1/5 h

2h + 1/5 h = 12 min

2h 12 min

2X

X/2X