

Ficha para classe:

$$\textcircled{1} \begin{array}{r} 23a7 = 7 \\ -1231 \end{array}$$

$$-1(2) + 2(3) + a(3) + 1(7) = 7$$

$$-2 + 6 + 3a + 7 = 7$$

$$-2 + 3 + 3a = 7$$

$$1 + 3a = 7$$

$$1 + 3(1) = 7$$

$$a = 1 \quad 14 = 7$$

$$1 + 3(8) = 7$$

$$1 + 24 = 7$$

$$35 = 7$$

$$\textcircled{17} m + m + p = ?$$

$$\begin{array}{r} 2mm = 5 \\ \downarrow \downarrow \\ 45 \end{array}$$

$$\begin{array}{r} mm = 6 \\ 11 \\ 54 \end{array}$$

$$\begin{array}{r} mmp = 4 \\ 111 \\ 450 \end{array}$$

$$m + m + p =$$

$$4 + 5 + 0 = 11$$

⑤ $5ab4ca$ es divisible entre 72

$$\begin{array}{r} 72 \\ 11 \\ 98 \end{array}$$

$$\begin{array}{r} 5ab4ca \\ \downarrow \downarrow \downarrow \\ 421 \end{array}$$

$$5ab4ca = 9$$

$$16 + 12 + a = 8$$

$$5 + 4 + b + 4 + 6 + 4 = 9$$

$$28 + a = 8$$

$$a = 4$$

$$23 + b = 9$$

$$\begin{array}{r} a + b \\ 4 + 4 = 8 \end{array}$$

$$b = 4$$

⑥ $a1a53 = 11$

$$3 + 2a - 6 = 11$$

$$2a - 3 = 11$$

$$2(7) - 3 = 11$$

$$11 = 11$$

⑦ $378\beta = 9$

$$\begin{array}{r} \overline{ab} = 5 \\ \downarrow \downarrow \\ 45 = 5 \end{array}$$

$$\begin{array}{r} \overline{ba} = 9 \\ \downarrow \downarrow \\ 54 = 9 \end{array}$$

$$\begin{array}{r} \overline{abc} = 4 \\ \downarrow \downarrow \\ 51 \end{array}$$

$$10 + c = 4$$

$$10 + b = 4$$

$$16 = 4$$

$$4 + 5 + 6 = 15 //$$

$$\textcircled{7} \quad \begin{array}{r} 4 \mid 2m \quad 5m = 11 \\ - \quad + \quad - \quad + \end{array}$$

$$(m+m+1) - (4+2+5) = 11$$

$$(2m+1) - (11)$$

$$2m - 10 = 11$$

$$2(5) - 10 = 11$$

$$0 = 11$$

$$\textcircled{13} \quad \begin{array}{r} a \mid a \quad 53 = 11 \\ - \quad + \quad - \quad + \end{array}$$

$$\textcircled{2} \quad 1+x+x+4 = 3$$

$$1+2x+4 = 3$$

$$2x+5 = 3$$

$$1114 = 7x$$

$$1224 = 9x$$

$$1334 = 11x$$

$$1444 = 13x$$

$$1554 = 15x$$

$$1664 = 17x$$

$$1774 = 19x$$

$$1884 = 21x$$

$$1994 = 23x$$

$$2004 = 25x$$

$$\begin{array}{r} x = 2 \\ x = 5 \\ x = 8 \\ \hline 15 \end{array}$$

$$\textcircled{3} \quad 9+a+3a = 9$$

$$12+2a = 9$$

$$12 + 2(1) = 14 \times$$

$$12 + 2(2) = 16 \times$$

$$12 + 2(3) = 18 \checkmark$$

$$12 + 2(4) = 20 \times$$

$$12 + 2(5) = 22 \times$$

$$12 + 2(6) = 24 \times$$

$$12 + 2(7) = 26 \times$$

$$12 + 2(8) = 28 \times$$

$$12 + 2(9) = 30 \times$$

$$12 + 2(0) = 6 \times$$

$$a = 3 //$$

$$\textcircled{4} a + a + a + a + a + 2 = 9$$

$$5a + 2 = 9$$

$$5(1) + 2 = 7$$

$$5(2) + 2 = 12$$

$$5(3) + 2 = 17$$

$$5(4) + 2 = 22$$

$$5(5) + 2 = \textcircled{27} \checkmark$$

$$5(6) + 2 = 32$$

$$5(7) + 2 = 37$$

$$5(8) + 2 = 42$$

$$a = 5 //$$

⑤

$$\begin{array}{cccc|c} m & m & m & & 1 \\ \downarrow & \downarrow & \downarrow & & \downarrow \\ -1 & 2 & 3 & & 1 \end{array}$$

$$-m \quad 2m \quad 3m \quad |$$

$$-m + 5m + 1$$

$$4m + 1$$

$$4(1) + 1 = 5$$

$$4(2) + 1 = 9$$

$$4(3) + 1 = 13$$

$$4(4) + 1 = 17$$

$$5 = 21 \checkmark$$

$$m = 5$$

$$6 = 25 \checkmark$$

$$7 = 29$$

$$8 = 33$$

$$9 = 37$$

⑥

$$\begin{array}{cccccc|c} & p & p & p & p & p & \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ & -2 & -3 & -1 & 2 & 3 & \\ \hline & -2p & -3p & -p & 2p & 3p & \end{array}$$

$$| \quad -2p \quad -3p \quad -p \quad 2p \quad 3p \quad |$$

$$2 - 6p + 5p$$

$$2 - p$$

$$2 - 1 = 1$$

$$2 - 2 = 0$$

$$2 - 3 = -1$$

$$4 = -2$$

$$5 = -3$$

$$6 = -4$$

$$7 = -5$$

$$8 = -6$$

$$9 = -7$$

$$0 = 2$$

$$p = 2 //$$

Escribe verdadero (V) o falso (F), según corresponda.

I. 197 es $\bar{3}$ (F)

II. 47353 es $\bar{7}$ (F)

III. 9449 es $\bar{11}$ (V)

a. VVF b. VVV **c. FFV** d. VFV

$$\begin{array}{r} 1+9+7=3 \\ 17=3 \end{array} \quad (F)$$

$$\begin{array}{cccccc} 4 & 7 & 3 & 5 & 3 & \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\ -12 & -7 & 6 & 15 & 3 & \end{array} \quad (F)$$

$$-12 - 7 + 6 + 15 + 3 = 5 //$$

$$\begin{array}{r} 9+4=13 \\ 4+9=13 \\ 0 \end{array} \quad (V)$$

9. Coloca verdadero (V) o falso (F), según corresponda.

I. -789532 es $\overset{\circ}{2}$ (V)

II. 473259 es $\overset{\circ}{9}$ (F)

III. 73545 es $\overset{\circ}{25}$ (F)

- a. VVV b. FFF c. FFV **d. VFF**

I.) $7+8+9+5+3+2=2$ (V)
 $34 = \overset{\circ}{2}$

II.) $4+7+3+2+5+9=9$ (F)
 $30 = \overset{\circ}{9}$

III.) $735 \overline{) 45}$
 No es divisible por 25

10. Relaciona correctamente y encierra la alternativa correcta.

I. $\overset{\circ}{7}$ ————— a. 1071; 4578; 665

II. $\overset{\circ}{8}$ ————— b. 472; 504; 208 *Mal*

III. $\overset{\circ}{11}$ ————— c. 165; 297; 462

a. Ia, IIb, IIIc

c. Ib, IIa, IIIc

b. Ic, IIa, IIIb

d. Ib, IIc, IIIa

I.)
$$\begin{array}{r} 1 \ 0 \ 7 \ 1 \\ 1 \ 1 \ 1 \ 1 \\ \hline -1 \ 2 \ 3 \ 1 \\ \hline -1 \ 0 \ 2 \ 1 \ 1 = 21 \end{array}$$

$$\begin{array}{r} 6 \ 6 \ 5 \\ 1 \ 1 \ 1 \\ \hline 12 \ 18 \ 5 = 35 \end{array}$$

$\overset{1}{1}\overset{2}{6}\overset{3}{5} = \overset{0}{11}$	$\overset{1}{2}\overset{2}{9}\overset{3}{7}$
$1+5=6$	$2+7=9$
6	9

Calcula el valor de "a" y coloca >, < o = según corresponda.

- I. $\overline{22a} = \overset{0}{13}$ $4a\overline{2} = \overset{0}{8}$
- II. $\overline{3a} = \overset{0}{9}$ $\overline{423a} = \overset{0}{7}$
- III. $\overline{7a} = \overset{0}{13}$ $\overline{17a} = \overset{0}{11}$

- a. <, >, >
- b. >, >, >
- c. >, >, =
- d. >, =, <

I. $\overline{22-9a} = \overset{0}{13}$ $4a\overline{2} = \overset{0}{8}$

$1 = \checkmark$
 $2 = X$
 $3 = X$
 $4 = X$
 $5 = X$
 $6 = X$
 $7 = \checkmark$
 $8 = X$
 $9 = X$

$a = 3$ y 7

$a = 1$

II. $3+a=9$ $\overline{423a} = \overset{0}{7}$

$a = 6$

$36 = \overset{0}{9}$

$a(1) + 3(3) + 2(2) + 4(1) = 7$

$a + 9 + 4 - 4 = 7$

$a + 9 = 7 \Rightarrow a = 5$

III. $\overline{7a} = \overset{0}{13}$ $\overline{17a} = \overset{0}{11}$

$78 = \overset{0}{13}$

$(1+a) - (7) = 11$

$a - 6 = 11$

$6 - 6 = 11$

$0 = 11$