29 1111 ①

Pag 87

71) Dos números consecutivos que suman 51

$x + (x+1) = 51$

$2x + 1 = 51 \;//\; 2x = 51 - 1 = 50 \;//\; x = \frac{50}{2} = 25$

$x = 25$
$y = 26$

72) $(2x) + (3x) = 10$

$2x + 3x = 10 \;//\; 5x = 10 \;//\; x = \frac{10}{5} = 2 \;//\; x = 2$

76) $x - \frac{x}{2} - \left(\frac{1}{3} \cdot \frac{x}{2}\right) = 40.000$

$x - \frac{x}{2} - \frac{x}{6} = 40.000 \;//\; \frac{6x}{6} - \frac{3x}{6} - \frac{x}{6} = \frac{240.000}{6}$

$6x - 3x - x = 240.000 \;//\; 2x = 240.000 \;//\; x = \frac{240.000}{2}$

$x = 120.000.$

Pag 88

78)

	M	I
Ahora	$x+4$	x
+3 años	$(x+4)+3$	$x+3$

$[(x+4)+3] + (x+3) = 20$

$x + 4 + 3 + x + 3 = 20 \;//\; 2x + 10 = 20 \;//\; 2x = 20 - 10 = 10$

$2x = 10 \;//\; x = \frac{10}{2} = 5 \;//\; x = 5$

Pag 88

79)

-6	$x-6$
Ahora	x
$+12$	$x+12$

$$3\cdot(x-6) = x+12$$

$$3x-18 = x+12 \;//\; 3x-x = 12+18 \;//$$

$$2x = 30 \;//\; x = \frac{30}{2} = 15 \;//\; \underline{x = 15}$$

82)

	Cant	Precio
λ_1	x	$0'75$
λ_2	$100-x$	$0'85$
Mezcla	100	$(x\cdot 0'75)+(100-x)\cdot 0'85$

$$\frac{(x\cdot 0'75)+(100-x)\cdot 0'85}{100} = 0'77$$

$$0'75x + 85 - 0'85x = 0'77\cdot 100 = 77$$

$$0'75x - 0'85x = 77 - 85$$

$$-0'10x = -8 \;//\; x = \frac{-8}{-0'10} = 80$$

$$\boxed{\begin{array}{l} x = 80 \\ y = 20 \end{array}}$$

29 11 11 ③

Pag 89

86)

	Salida	Vel	Dist	tiempo
E	8h	90	x+110	t
J	8h	70	x	t

$t \cdot 90 = (t \cdot 70) + 110$

$90t = 70t + 110 \;//\; 90t - 70t = 110$

$20t = 110 \;//\; t = \frac{110}{20} = 5'5\,h = 5^h\,30\,m$

$t = 5^h\,30^m$

D. Juan $= 5'5 \cdot 70 = 385$ km.

D. Esther $= 5'5 \cdot 90 = 495$ km.

Hora encuentro $= 8 + 5'5 = 13'5^h = 13^h\,30^m$.