

EVALUACIÓN DE COMPETENCIA CURRICULAR
EDUCACIÓN SECUNDARIA
MATEMÁTICAS
-Guía para la corrección-

Curso Primero de Educación Secundaria

1. $7000+50 = 7050 \text{ l} = 7050 \text{ kg} = 7050 \text{ dm}^3$

2. $\frac{12}{18} = \frac{2^2 \times 3^2}{2 \times 3^2} = \frac{2}{3}$

3.

$18 = 2 \cdot 3^2$ $32 = 2^5$ $24 = 2^3 \cdot 3$ a) mcd = 2 b) mcm = $2^5 \cdot 3^2 = 288$

4.

$(-15) + (-7) = -22$

$(-3) - (+6) = -9$

$(+2) \cdot (+6) \cdot (-1) = -12$

$(-18) : (-3) = 6$

$(-3)^3 = -27$

$a^3 \cdot a^2 \cdot a^3 = a^8$

$(a/b)^2 = a^2/b^2$

$3 + (5 - 3) = 5$

$(3 + 4) \cdot (5 - 3) = 7 \cdot 2 = 14$

5. 10^4

6. 12^2

7. $5(-3) + 3 = -12$

8. $7x - 21 = 2x - 1$ $5x = 20$ $x = 20/5 = 4$

9. $4/x = 2/6$ $2x = 24$ $x = 12$

10. $20/100 \times 500 = 100$

11. $x \cdot (5x + 9)$

12. $(a+b)(a-b) = a^2 - b^2$

13. $(a+b)^2 = a^2 + b^2 + 2ab$

14. $(x-2)^2 = x^2 + 4 - 4x$

15. $1000 \times 2/5 = 400$ **Falta 1600 m**

16. $1/3 \times 12 = 12/3 = 4$ **litros**

17. $3/4 : 1/8 = 24/4 = 6$ **vasos**

18.
$$\begin{array}{r} 8\text{h } 76' 85'' \\ 7\text{h } 45' 36'' \\ \hline 1\text{h } 29' 49'' \end{array}$$

19. $3600 + 2400 = 5000'' \times 4 = 20000$ **pulsaciones**

20. $S = L^2 \quad S = 5^2 = 25 \text{ cm}^2 \quad d = \sqrt{5^2 + 5^2} = \sqrt{50}$

21.
$$S = \frac{P \times a}{2} \quad S = \frac{30 \times 4}{2} = 60 \text{ cm}^2$$

22.
$$S = \frac{D \times d}{2} \quad S = \frac{6 \times 4}{2} = 12 \text{ cm}^2$$

23. $S = b \times h \quad h = S/b \quad h = 300 \text{ cm}^2 / 20 \text{ cm} = 15 \text{ cm}$

24.

| X | Y |
|----|---|
| 4 | 2 |
| -2 | 5 |

25. $-5 - (+14) = -19$

26. $8 - 2x = -16 \quad 8 + 16 = 2x \quad x = 24/2 = 12$

$$27. \quad \begin{array}{l} x + y = 95 \\ \underline{x - y = 125} \\ 2x = 220 \end{array} \quad \begin{array}{l} x = 220/2 = 110 \\ 110 + y = 95 \quad y = -15 \end{array}$$

$$28. \quad i = \text{c.r.t}/100 \quad i = 100000 \cdot 9.2/100 = 18000 \text{ pts}$$

$$29. \quad \begin{array}{l} X \quad 12 \\ \text{---} = \text{---} \\ 1,3 \quad 1,2 \end{array} \quad 1,2 \cdot X = 1,3 \cdot 12 \quad X = 13$$

$$30. \quad \begin{array}{l} 1 \quad 0,2 \\ \text{---} = \text{---} \\ 500 \quad X \end{array} \quad X = 100 \text{ m}$$

$$31. \quad \begin{array}{l} 5000 \text{ -----} > 100 \\ X \text{ -----} > 70 \end{array} \quad X = \frac{35000}{100} = 3500 \quad Y = 1500$$

$$32. \quad 10/100 \times 750 = 75 \quad 750 - 75 = 650 \text{ pts}$$

$$33. \quad (3 + 9 + 5 + 7) / 4 = 6$$