# Examen 1ª Evaluación

1.- a) $25 - 50 - 56 + 50 - 25 + 56 =$

$131 - 131$

$0$

b) $3 \cdot [-3 + (-3)] - 14 \div (-7) =$

$3 \cdot [-3 - 3] - 14 \div (-7)$

$3 \cdot [-6] + 2$

$-18 + 2$

$-16$

c) $2 \cdot [3 + (-2) \cdot 5] + (-2) \cdot (-5) \cdot (-3) =$

$2 \cdot [3 - 10] + 10 \cdot (-3)$

$2 \cdot [-7] - 30$

$-14 - 30$

$-44$

d) $-9 \div 3 - [(8-10) - (9-2)] =$

$-3 - [(-2) - (7)] =$

$-3 - [-2-7]$

$-3 - [-9]$

$-3+9$

$+6$

e) $[(-4) \cdot 2 + 20] \div (-4) + 2 \cdot (9 \div (-3))$

$[-8 + 20] \div (-4) + 2 \cdot (-3)$

$12 \div (-4) - 6$

$-3 - 6$

$-9$

f) $42 \div [(-6) - (-3)] + 28 \div [-6 - (-8)] =$

$42 \div [-6+3] + 28 \div [-6+8] =$

$42 \div (-3) + 28 \div 2$

$-14 + 14$

$0$

2.-

a) $2^3 + (2 \cdot \sqrt{64} - 3^2)^2 - 5^2 - 4 \cdot 5$

$8 + (2 \cdot 8 - 9)^2 - 25 - 4 \cdot 25$

$8 + (16 - 9)^2 - 25 - 100$

$8 + (7)^2 - 25 - 100$

$8 + 49 - 125$

$-68$

b) $(\sqrt{16} - 2)^2 + 3^2 \cdot 3 =$

$(4 - 2)^2 + 9 \cdot 3 =$

$(2)^2 + 27$

$4 + 27$

$\underline{31}$

c) $(-25) + [3 \cdot (-21 \div \sqrt{49})]^2 =$

$-25 + [3 \cdot (-21 \div 7)]^2$

$-25 + [3 \cdot (-3)]^2$

$-25 + [-9]^2$

$-25 + 81$

$+56$ //

d) $2 + 3 \cdot \sqrt{18 - 3^2} - 1^2 =$

$2 + 3 \cdot \sqrt{18 - 9} - 1^2 =$

$2 + 3 \cdot \sqrt{9} - 1^2$

$2 + 3 \cdot 3 - 1^2 \cdot$

$2 + 9 - 1$

$11 - 1$

$+10$ //

3. -

a) $9^5 : 3^5 = (3^2)^5 : 3^5 = 3^{10} : 3^5 = 3^5 =$

$= 243$

b) $2^2 \cdot 2^4 = 2^6 = 64$

c) $4^3 \cdot 4^3 = 4^6 = 4096$

d) $(3^2)^3 = 3^6 = 729$

e) $5^5 : 5^3 = 5^{5-3} = 5^2 =$ 25

f) $2^5 \cdot 2^5 = 2^{10} = 1024$

4.

a) $\sqrt{225} = 15$

$15 \times 15 = 225$

b) $\sqrt{45} \simeq 6'9$

$6 \times 6 = 36$

$45 - 36 = 9$

c) $\sqrt{300} \simeq 17'11$

$17 \times 17 = 289$

$300 - 289 = 11$

d) $\sqrt{100} = 10$

$10 \times 10 = 100$

5.) m.c.m.

a) 25 y 45

$25 = 5^2$
$45 = 5 \cdot 3^2$

| 25 \| 5 |
|---|
| 5 \| 5 |
| 1 \| |

| 45 \| 5 |
|---|
| 9 \| 3 |
| 3 \| 3 |
| 1 \| |

$m.c.m = 5^2 \cdot 3^2 = 25 \cdot 9 = \underline{\underline{225}}$

b) 50, 75 y 25

$50 = 5^2 \cdot 2$
$75 = 5^2 \cdot 3$
$25 = 5^2$

| 25 \| 5 |
|---|
| 5 \| 5 |
| 1 \| |

| 50 \| 5 |
|---|
| 10 \| 5 |
| 2 \| 2 |
| 1 \| |

| 75 \| 5 |
|---|
| 15 \| 5 |
| 3 \| 3 |
| 1 \| |

$m.c.m = 5^2 \cdot 3 \cdot 2 = 25 \cdot 3 \cdot 2 = \underline{\underline{150}}$