

Nombre:

Fecha:

1. (1p) Order the numbers $\{3, -4, 0, -2, 2, -5\}$ from lowest to greatest, and represent them on the number line.

2. (1p) Mark True or False according to the text. You'll obtain 0,2 points for each correct answered and you'll lose 0,1 points for each wrong answer.

All the natural numbers are integer numbers	☐ True	☐ False
The opposite of an integer number is always positive	☐ True	☐ False
The absolute value of an even number is always positive	☐ True	☐ False
All the integers numbers are natural numbers	☐ True	☐ False
The addition of two integer numbers is always positive	☐ True	☐ False

2. (3p) Calculate: a) $5 - (-4) + (-8) - 6 + (+4) - (+2)$

b) $-5 + 3 \cdot (-4) - (-2) - 4 \cdot (-5)$

c) $(1 - 7) - [(-5 + 3) \div (4 - 2 - 3)]$

4. (1p) Write as a single power and calculate its value:

a) $(-3)^2 \cdot (-3)^3$ b) $3^2 \cdot (-4)^2$ c) $(-2)^5 \div (-2)^3$ d) $(-4)^5 \div 2^5$

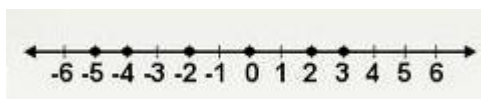
5. (1p) Calculate the following exact roots: a) $\sqrt{64}$ b) $\sqrt[3]{64}$ c) $\sqrt{-81}$ d) $\sqrt[3]{-27}$

6. (1p) Octavio Augusto was the first roman emperor. He was born in 63 BCE and died in 14 CE. How old was he when he died? How old was he when he becomes *Imperator Caesar Augustus* at 27 BCE? (becomes: *llegar a ser, convertirse en*).

7. (1p) Hemos comprado un camión congelador que estaba, al ponerlo en marcha, a 25°C . Al cabo de 4 horas estaba a -7°C ¿Cuántos grados bajó cada hora?

8 (1p) Salí de mi piso y bajé 3 plantas para buscar a mi amigo Juan. Subimos 4 pisos hasta la casa de Inés, que vive en el 9° ¿En qué piso vivo?

1. (1p) $-5 < -4 < -2 < 0 < 2 < 3$



2. (1p) a) True b) False c) True d) False e) False

3. (3p) a) $5 + 4 - 8 - 6 + 4 - 2 = 13 - 16 = -3$

b) $-5 - 12 + 2 + 20 = 22 - 17 = 5$

c) $-6 - [(-2) \div (-1)] = -6 - (+2) = -6 - 2 = -8$

4. (1p) a) $(-3)^5 = -243$ b) $(-12)^2 = 144$ c) $(-2)^2 = 4$ $(-2)^5 = -32$

5. (1p) a) ± 8 b) 4 c) $\nexists$ d) -3

6. (1p) He died at the age of $14 - (-63) = 77$ years. He was $-27 - (-63) = 36$ years old.

7. (1p) $[-7 - (+25)] \div 4 = -8 \Rightarrow$ Bajó 8°C cada hora.

8. (1p) Juan vive en $9 - (+4) = 5 \Rightarrow 5^\circ$ piso. Yo vivo en $5 - (-3) = 8 \Rightarrow 8^\circ$ piso.