

EXAMEN SEPTIEMBRE - 1º ESO

Exercise 1: Work out:

- a) lcm (24, 60) =
- b) hcf (105, 135) =

Exercise 2: Work out the value of:

- a) $2\sqrt{81} + 24 : 2^3 - (4 - 9) =$
- b) $7 - 5 \cdot (4 + 2 \cdot 3) - 1^7 + 6 \cdot 0 =$
- c) $-4 + 7 - 8 - 9 + 5 + 4 - 3 =$
- d) $1 + 2 \cdot (3 - 7) - 15 : (-3) + (-2) \cdot (-4) =$

Exercise 3: In a high school there are 1200 students. If two fifths of them participated in a photograph contest, and a third of them in the drawing contest, how many students didn't participate in any of the contests?

Exercise 4: A farmer has enough food to feed eight sheep for thirty days.

- a) How long would the food last if he had ten sheep?
- b) How many sheep would he have to sell if he wants the food to last for eighty days?

Exercise 5: Yesterday I went to the shop and I bought six packs of milk, 0.75€ each, and three quarters of a kilogram of strawberries, 2€/kg. If I paid with a ten euros bill, how much money did I get in return?

Exercise 6: Calculate:

- a) $7.2 + 0.3 \cdot (1.75 - 3.1) =$
- b) $\frac{7}{5} : \left(\frac{2}{3} - 1 + \frac{4}{7} - \frac{9}{14} \right) =$

Exercise 7: Work out the solution of these equations.

- a) $3x - 1 = 5x + 1 + 2x$
- b) $5x + 7 - x - 2 = 4 - 9x$
- c) $5 - 14x = 2(3 - 7x) + 7$
- d) $5(2x - 1) = 26x - 3(x - 2)$

Exercise 8: The two sides of a right-angled trapezium are 6 cm and 10 cm, and its height is 3 cm. Work out the value of its perimeter and its area.

Exercise 9: Halla el área de una corona circular de radios 5 cm y 10 cm.

Exercise 10: La siguiente tabla muestra el número de horas que pasan en internet al día los alumnos de una clase

x_i	f_i
1	6
2	12
3	10
4	3
5	1

- ¿Cuántos alumnos hay en la clase?
- Calcula la moda y la media
- Realiza el diagrama de barras y el polígono de frecuencias
- ¿De qué tipo es la variable? ¿Por qué?