## GLOBAL 3° EVALUACIÓN

1.- Calculate HCF and LCM of:

a) 240 and 30

b) 125 and 55

2.- Calculate (remember order of operations):

a) 
$$[-5+3] \cdot (-2) - (+7) =$$

b) 
$$(2-3)^2 - (-6) \cdot (-2) =$$

3.- Arrange in ascending order:

$$-3,23;0,124;-3,235;0;-3,1;0,15;0,257;0,25;-3,07;-3,12$$



4.- Round to the nearest hundredths:

a) 1,3377 →	b) -211,0542 →
c) -0,5242 →	d) 15,8856 →

5.- There are eight cans on the shelf. Each can contains three hundred twenty-

five millilitres of tomato soup. Janet poured all the soup into one bowl. How many litres of soup does she have?



6.- Work out these operations:

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$\boxed{\frac{2}{5} \cdot \left(\frac{1}{2} - \frac{4}{3}\right)} =$	$\boxed{\frac{1}{5} + \frac{2}{3} \div \frac{5}{7}} =$

7.- Laura bought 8/9 of a pound of chocolates and ate 1/3 of a pound. How much was left?



8.- 60 students participated in a survey about pets. 27 have a dog, 15 have a pet cat, and 18 students have no pets at all. What percentage of the students have a pet?



9.- 24 people can construct a house in 15 days. But the owner would like to finish the work in 12 days. How many workers should he employ?

10.- Solve and check:

a) 
$$2(x-3)+4=3x-5$$

b) 
$$3x - (x+2) = x-1$$

## **SOLUCIONES**

1.- Calculate HCF and LCM of:

a) 240 and 30

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240	2	30	2	$240 = 2^4 \cdot 3 \cdot 5$
120	2	15	3	$30=2\cdot 3\cdot 5$
60	2	5	5	
30	2	1		$HCF = 2 \cdot 3 \cdot 5 = 30$
15	3			$LCM = 2^4 \cdot 3 \cdot 5 = 240$
5	5			
1				

b) 125 and 55

2.- a) 
$$[-5+3] \cdot (-2) - (+7) = (-2) \cdot (-2) - 7 = 4 - 7 = -3$$
  
b)  $(2-3)^2 - (-6) \cdot (-2) = (-1)^2 - 12 = 1 - 12 = -11$ 

3.- Arrange in ascending order:

$$-3,23; 0,124; -3,235; 0; -3,1; 0,15; 0,257; 0,25; -3,07; -3,12$$
  
 $-3,235 < -3,23 < -3,12 < -3,1 < 0 < 0,124 < 0,15 < 0,25 < 0,257$ 

4.- Round to the nearest hundredths:

a) 1,3377 → 1,34	b) -211,0542 → -211,05
c) -0,5242 →-0,52	d) 15,8856 →15,89

5.- There are eight cans on the shelf. Each can contains three hundred twenty-

five millilitres of tomato soup. Janet poured all the soup into one bowl. How many litres of soup does she have?

$$8.325 = 2500 \text{ ml} = 2.5 \text{ litres of soup}$$

6.- Work out these operations:

$$\frac{2}{5} \cdot \left(\frac{1}{2} - \frac{4}{3}\right) = \frac{2}{5} \cdot \frac{3 - 8}{6} = \frac{2}{5} \cdot \frac{-5}{6} = -\frac{1}{3} \quad \frac{1}{5} + \frac{2}{3} \div \frac{5}{7} = \frac{1}{5} + \frac{14}{15} = \frac{3 + 14}{15} = \frac{17}{15}$$

7.- Laura bought 8/9 of a pound of chocolates and ate 1/3 of a pound. How much was left?

$$\frac{8}{9} - \frac{1}{3} = \frac{8}{9} - \frac{3}{9} = \frac{5}{9}$$
 It was left  $\frac{5}{9}$  of a pound

8.- 60 students participated in a survey about pets. 27 have a dog, 15 have a pet cat, and 18 students have no pets at all. What percentage of the students have a pet?

$$27+15=42$$
 students have a pet

$$\frac{42}{60} = \frac{x}{100} \rightarrow 42 \cdot 100 = 60x \rightarrow x = \frac{4200}{60} = 70$$

70% of students have a pet



9.- 24 people can construct a house in 15 days. But the owner would like to finish the work in 12 days. How many workers should he employ?

X people \_\_\_\_\_ 12 days 
$$\to \frac{x}{24} = \frac{15}{12} \to x = \frac{15 \cdot 24}{12} = 30$$

He should employ 30 people

10.- Solve and check:

a) 
$$2(x-3)+4=3x-5 \rightarrow 2x-6+4=3x-5 \rightarrow -6+4+5=3x-2x \rightarrow x=3$$
  
  $2(3-3)+4=3\cdot 3-5 \rightarrow 0+4=9-5 \rightarrow 4=4$ 

b) 
$$3x - (x+2) = x-1 \rightarrow 3x - x - 2 = x-1 \rightarrow 3x - x - x = -1 + 2 \rightarrow x = 1$$
  
 $3 \cdot 1 - (1+2) = 1 - 1 \rightarrow 3 - 3 = 0$