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:

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

SOLUCIONES

	lculate 40 and 3		and LC	M of:		
240	2	30	2	$240 = 2^4 \cdot 3 \cdot 5$		
120	2 2 2 2 3	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						
	25 and 5					
125	5	55	5	$125 = 5^{3}$ 55 = 5 \cdot 11 HCF = 5		
25	5	11	11	$55 = 5 \cdot 11$		
5	5	1		HCF=5		
1				$LCM = 5^3 \cdot 11 = 1375$		
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 ml = 2.5 litres of soup

6.- Work out these operations:

2	(1	4)	2	3-8	2	-5	1	1	2	5	1	14	3+14	17
5	$\overline{2}$	<u> </u>	= <u>-</u>	6	= <u>-</u> . 5	6	3	5	3	7	5	15	$=\frac{3+14}{15}=$	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?

INVERSE 24 people _____ 15 days

X people _____ 12 days
$$\rightarrow \frac{x}{24} = \frac{15}{12} \rightarrow x = \frac{15 \cdot 24}{12} = 30$$

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