## GLOBAL $3^{a}$ 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) $1,3377 \rightarrow$
b) $-211,0542 \rightarrow$
c) $-0,5242 \rightarrow$
d) $15,8856 \rightarrow$
5.- There are eight cans on the shelf. Each can contains three hundred twentyfive millilitres of tomato soup. Janet poured all the soup into one bowl. How many litres of soup does she have?

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6.- Work out these operations:
$\frac{2}{5} \cdot\left(\frac{1}{2}-\frac{4}{3}\right)=$ $\frac{1}{5}+\frac{2}{3} \div \frac{5}{7}=$
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) $2(x-3)+4=3 x-5$
b) $3 x-(x+2)=x-1$

## SOLUCIONES

1.- Calculate HCF and LCM of:
a) 240 and 30

| 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 | $H C F=2 \cdot 3 \cdot 5=30$ |
| 30 | 2 | 1 |  |  |
| 15 | 3 |  |  |  |
| 5 | 5 |  |  |  |
| 1 |  |  |  |  |

b) 125 and 55

| 125 | 5 | 55 | 5 | $125=5^{3}$ <br> 25 <br> 5 |
| ---: | :--- | ---: | :--- | :--- |
| 5 | 11 | 11 | $55=5 \cdot 11$ |  |
| 1 | 1 |  | HCF $=5$ <br> 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) $1,3377 \rightarrow 1,34$
b) $-211,0542 \rightarrow-211,05$
c) $-0,5242 \rightarrow-0,52$
d) $15,8856 \rightarrow 15,89$
5.- There are eight cans on the shelf. Each can contains three hundred twentyfive millilitres of tomato soup. Janet poured all the soup into one bowl.
 How many litres of soup does she have? $8 \cdot 325=2500 \mathrm{ml}=2.5$ 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
$\frac{42}{60}=\frac{x}{100} \rightarrow 42 \cdot 100=60 x \rightarrow x=\frac{4200}{60}=70$
$70 \%$ 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 $\qquad$ 15 days
$X$ people $\qquad$ 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) $2(x-3)+4=3 x-5 \rightarrow 2 x-6+4=3 x-5 \rightarrow-6+4+5=3 x-2 x \rightarrow x=3$ $2(3-3)+4=3 \cdot 3-5 \rightarrow 0+4=9-5 \rightarrow 4=4$
b) $3 x-(x+2)=x-1 \rightarrow 3 x-x-2=x-1 \rightarrow 3 x-x-x=-1+2 \rightarrow x=1$
$3 \cdot 1-(1+2)=1-1 \rightarrow 3-3=0$

