## EST January 2024

## Eng. Mohamed Minshawy

$$
1-\frac{2 a}{3 b}=\frac{1}{5}
$$

In the equation shown above, find the value of $\frac{a}{6 b}$

2- How many 3 digits even numbers that have the first digit even?
A) 70
B) 120
C) 150
D) 200
$3-\frac{4^{5 x}}{2^{y-1}}=32$
what is the value of $-30 x+3 y$ for the equation mentioned earlier?
A) -14
B) -12
B) 12
D) 10

## 4- No calculator question

According to the graph of the inequality shown above, which of the following choices can represent it?
A) $y+x \geq 1$
B) $y+x>1$
C) $y+x \leq 1$
D) $y+x<1$

5- $4^{2 x}=256$
Find the value of $x$ that satisfies the equation shown above?

6
In a high school the total number of students is 4550 , The ratio between the boys and the girls is 5:2 and $10 \%$ of the girls wear glasses. How many girls Don't wear glásses?

## 7- No calculator question



According to the figure shown above, What is the value of the following:
A) $x$
B) $y+Z$

## 8- With calculator question

For the following data set $\{4,7,6,9,9,10,12,14\}$ the quotient of the sum of values and the inter quatral range is $\frac{146}{g}$, What is the value of $g$ ?

