1

First of all: max(x,y) and min(x,y) are just some functions defined as: **max(x,y)=the maximum of x and y** and **min(x,y)=the minimum of x and y.**

Max (x,y) is defined as the maximum of x and y, and Min(x,y) is defined as the minimum of x and y. What is the average of Max(x,60) and Min(40,x) ?

Question is: $average = \dfrac{min(40,x)+max(x,60)}{2} = ?$. Consider the following three cases:

If $x<40$ then $min(40,x)=x$, $max(x,60)=60$ and $average = \dfrac{x+60}{2} = ?$;

If $40<x<60$ then $min(40,x)=40$, $max(x,60)=60$ and $average = \dfrac{40+60}{2} = 50$;

If $x>60$ then $min(40,x)=40$, $max(x,60)=x$ and $average = \dfrac{40+x}{2} = ?$.

(1) Min(x,60)=x --> just says that $x<60$, so we have either the first or the second case. Not sufficient.

(2) Max(40,x)=x --> just says that $x>40$, so we have either the second or the third case. Not sufficient.

(1)+(2) $40<x<60$ so we have the second case: $min(40,x)=40$, $max(x,60)=60$ and $average = \dfrac{40+60}{2} = 50$. Sufficient.

Answer: C.

2

Each person on a committee with 40 members voted for exactly one of 3 candidates, F, G, or H. Did Candidate F receive the most votes from the 40 votes cast?

(1) Candidate F received 11 of the votes --> together G and H received 40-11=29 votes, so either one received at least 15 votes, which means that F definitely did not receiv the most votes. Sufficient.

(2) Candidate H received 14 of the votes --> if F=15 and G=11 then F received the most of the votes but if F=13 and G=13 then F did not receiv the most votes. Not sufficient.

Answer: A.