

SAT Calc Allowed

Monday 10/08

On his first 4 history tests, Pete earned scores of 70, 74, 82, and 83. In order to have an average of at least 80, what is the minimum score that Pete must earn on the next test?

1st method.

<u>70</u>	<u>74</u>	<u>82</u>	<u>83</u>	<u>?</u>
$70 - 80 = 10$	$74 - 80 = 6$	$82 - 80 = 2$	$83 - 80 = 3$	
16		5		
$= 11 + 80 = 91$				

2nd method

$$\left. \begin{array}{l} 70 + 74 + 82 + 83 = 309 \\ 80 \cdot 5 = 400 \end{array} \right\} 400 - 309 = 91$$

Average # of tests total

3rd method guess & check \rightarrow time limitation

$$\text{mean} = \frac{\text{sum of all data values}}{\# \text{ of values.}}$$

$$80 = \frac{\text{sum of all values}}{5}$$

$$80 = \frac{309 + x}{5}$$