Mean, Median, Mode, Range

Find the....

average a) Mean + #'s together ÷ by how many #'s
b) Median middle # of data in order
c) Mode most frequent #
d) Range biggest # - smallest #

3.3, 1.8, 3.2, 1.4, 4.2, 1.4

Mean → $\dfrac{3.3+1.8+3.2+1.4+4.2+1.4}{6}$ = 2.55

Median → 1.4, 1.4, 1.8, 3.2, 3.3, 4.2 $\dfrac{3.2+1.8}{2}$

2.5

Mode → 1.4

Range → 4.2 - 1.4 = 2.8

Create a Frequency Table

60, 65, 70, 70, 60, 65, 80, 85, 90, 95, 100, 85,
60, 65, 80, 95, 100, 80, 90, 90, 100, 80

Test Score	60	65	70	80	85	90	95	100
Frequency	III	IIII	II	IIIII	II	III	II	III

Mike has had tests scores of 84, 93, 89 and 92.
He wishes to an average of 90 for all of his tests. Mike still has one more test to take.
What score does he need on this 5th test in order to earn a 90% average?

Let x = the 5th test score.

$\dfrac{84+93+89+92+x}{5} = 90$

$5\left(\dfrac{358+x}{5}\right) = (90)5$

$358 + x = 450$

$-358 \qquad -358$

$x = 92\%$