Graded quiz on Sets, Number Line, Inequalities, Simplification, and Sigma Notation Quz rosis + 85 min

1/1 point 1/1 point  $\checkmark$  Correct. By applying one of our Sigma notation simplification rules, we can rewrite the summation in question as 2  $\{\Sigma_{k=1}^{20}~k\}=z\times 210=426.$ According to one of our Sigma notation simplification rules, this summation is just equal to 9 copies of the number 7 all added together, and so we get 9 . 7 = 63. ✓ Correct
To get the variance of a set of numbers, you need to perform four staps: 12. Which of the following numbers is the variance of the set  $Z=\{-2,4,7\}^\gamma$ Then divide by the number of elements in the set (which is 3). 11. Which of the numbers below is equal to the summation  $\Sigma_{i=2}^{10}~{\mathcal P}$ Then add all these up (here you get 42) Then calculate all the squared different and this mean there you get 25, 1, 16) First compute the mean (which is 3)  $=\frac{1}{3}\left[(-2-3)^2+(4-3)^2+(7-3)^2\right]$ Therefore, the variance of Z  $= \frac{1}{3}[25 + 1 + 16] = \frac{42}{3} = 14$ equal to  $\Sigma_{k=1}^{20}$  2 k? ✓ Correct 0 1/14 (E) (B) 0 210 ا ا 8 ® 12 Ö 3 0 9 9 8

(0,0,0,0,0,0,0)
(1.1.1.1}
(0) {1.1.1.1}
(1.5,5,1,5,5,5,5,5,5,5,5,5,5,5,5)
√ Correct Irruthisely, the numbers in this set are spread out.

1/1 point

 Which of the following sets does not have zero variance? (hint: don't do any calculation here, just think).