

**Problem #7**

The median and mode are equal for this set of seven whole numbers:

{1, 3, 4, 5, 6, 11, x}

The mean is also one of the six known members of the set.

What is the value of x?

(Hint: Guess, check, revise)

**Prediction – Give an answer with units and why you think that answer makes sense.**

**Work – Show all work, CORRECT and INCORRECT, INTELLIGENT and IMPRUDENT**

**Try not to erase anything !**

**Final answer with units:**

**Do you think you are correct? Does your answer match your prediction? Explain why or why not.**

*To receive a 100% HWE, make a prediction and explain prediction, show all steps and explain your reasons, label answer with units, explain if your answer makes sense and why you say so. A good explanation might sound like this "My prediction was the octagon would have 12 diagonals. My answer was 15, which makes sense because I noticed that the pattern was as you increased the number of sides, you increased the number of diagonals by more than one." A bad explanation: "I think I am right because I did the math" or "I drew a picture."*