**Use the clues to find the missing number(s).**

**Ex. Numbers are: 3 4 6 7 ? 1 unknown number**

Clue: The unknown # will increase the mean by 2.

**Calculate the mean for 1st four numbers**

**3 + 4 + 6 + 7 = 20**

**20 ÷ 4 = 5**

**Clue says mean will increase by 2; therefore it will be 7**

**How can we change 20 to 35?**

**The # must equal 15**

**All you need to do is multiply the new mean by the total number of cards, 7 x 5 = 35**

**Your turn:**

1. **Numbers are 8 12 4 3 ? ? 2 unknown number**

Clues: The median will be 7 and the range 11.

1. **Numbers are 19 7 9 16 ? ? 2 unknown numbers**

Clues: The mean will be 12 and the mode 9.

1. **Numbers are 11 12 10 11 ? ? 2 unknown numbers**

Clues: The unknown #s will increase the mean by 4 and the range will be 20.

1. **Numbers are 3 8 7 14 ? ? ? 3 unknown numbers**

Clues: The unknown numbers will decrease the mean by 2, the median will be 6 and range will be 13.

1. **Numbers are 6 4 2 5 ? ? ? 3 unknown numbers**

Clues: mean = 5, range = 7, median =5, mode = 6

**Key**

**Use the clues to find the missing number(s).**

**Example: Numbers are: 3 4 6 7 ? 1 unknown number**

Clue: The unknown # will increase the mean by 2.

**Calculate the mean for 1st four numbers**

**3 + 4 + 6 + 7 = 20**

**20 ÷ 4 = 5**

**Clue says mean will increase by 2; therefore it will be 7**

**How can we change 20 to 35?**

**The # must equal 15**

**All you need to do is multiply the new mean by the total number of cards, 7 x 5 = 35**

**Your turn:**

1. **Numbers are 8 12 4 3 6 14 2 unknown number**

Clues: The median will be 7 and the range 11.

1. **Numbers are 19 7 9 16 9 12 2 unknown numbers**

Clues: The mean will be 12 and the mode 9.

1. **Numbers are 11 12 10 11 30 16 2 unknown numbers**

Clues: The known cards will increase the mean by 4 and the range will be 20.

1. **Numbers are 3 8 7 14 6 1 3 3 unknown numbers**

Clues: The unknown numbers will decrease the mean by 2, the median will be 6 and range will be 13.

1. **Numbers are 6 4 2 5 6 9 3 3 unknown numbers**

Clues: mean = 5, range = 7, median =5, mode = 6