5.

$\{2, 3, 9, 4, 11, 4x-8, 3y-4\}$

The modes of the set above are 2 and 11. What is one possible value of $x+y$?

7.5

$4x-8=2$ $\quad 3y-4=11$

$4x=10$ $\quad 3y=15$

$x=5/2$ $\quad y=5$

6. The median of a list of 99 consecutive integers is 60. What is the greatest integer in the list?

109

49 #s → 60 → 49 #s

60 + 49

7.

10, 18, 4, 15, 3, 21, x

If x is the median of the 7 numbers listed above, which of the following could be the value of x?

3, 4, 10, x, 15, 18, 21

(A) 5
(B) 8
(C) 9
(D) 14
(E) 16

8. In the examples below, we will use the table below listing employees years of service:

Years	0-4	5-9	10-14	14+	Totals
Males	12	6	17	21	56
Females	8	9	13	14	44
Totals	20	15	30	35	100

1. What is the probability of randomly selecting a female employee?

$\frac{44}{100} = \frac{4}{25}$

2. Given that the employee is male, what is the probability that they have less than 4 years of experience?

$\frac{12}{56} = \frac{3}{14}$

3. Given that the employee has between 10 and 14 years of experience, what is the probability that the employee is female?

$\frac{13}{30}$

4. What is the probability of randomly selected an employee with less than 14 years of experience given that they are female?

$\frac{30}{44} = \frac{15}{22}$