

## Brief Article

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# Chapter 1

## Why you should use data science?

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**Solution 1.6-1**  
All of the choices is the correct answer.

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**Solution 1.6-2**  
The level of measurement of marital statis is nominal (3. ).

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**Solution 1.6-3**  
The level of measurement of marital status is interval-ratio (2. ).

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**Solution 1.6-4**  
The number of reported robberies in June 2014 is Kalamazoo County is continuous variable (3. ).



## Chapter 2

# Dataset Descriptive Information

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**Solution 2.5-1**

$$(2.)p = \frac{250 - 195}{250} = 0.22 \quad (2.1)$$

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**Solution 2.5-2**

$$(3.)ratio = \frac{195}{250 - 195} = 3.55 \quad (2.2)$$

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**Solution 2.5-3**

$$(2.)rate = \frac{13}{25000} \times 100000 = 52 \quad (2.3)$$

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**Solution 2.5-4**

$$(1.)PC = \frac{(83 - 89)}{89} \times 100 = -6.7\% \quad (2.4)$$

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**Solution 2.5-5**

(1. ) The percentage of nurses who are female is 36.8%. (2. ) The proportion of orderlies who are males is 0.367. (3. ) Ratio is 18 females docs to 83 males docs or approximately 1 female doc for every 5 males docs. (4. ) Percentage of females on the staff is 43.3%.

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**Solution 2.5-6**

The measure of the lost hours due to traffic is interval-ratio.