Reading a Box-and-Whisker
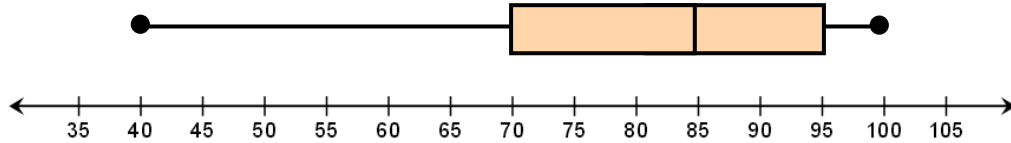
For questions 1 – 6, refer to the box & whisker graph below which shows the test results of a math class.
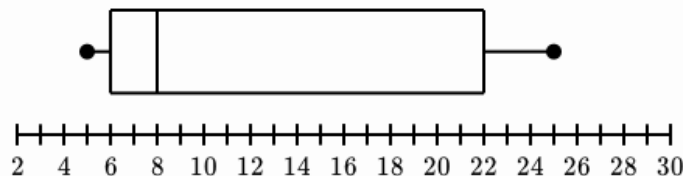
Test Scores for a Math Class

_____ 1. What was the highest score on the test?

_____ 2. What percent of the class scored above a 70?

_____ 3. What was the median score on the test?

_____ 4. What percent of the class scored between 85 & 95?
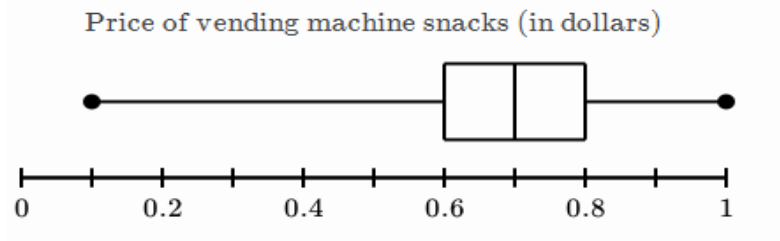
_____ 5. What was the lowest score on the test?

For questions 6 – 10, refer to the box & whisker graph below which shows the amount of cookies eaten during a cookie eating contest during lunch.

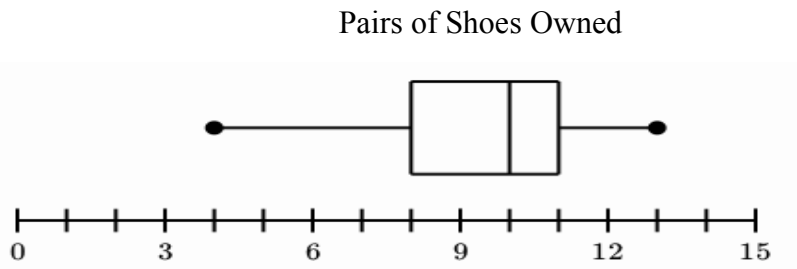Number of cookies eaten by each contestant

_____ 6. What was the largest amount of cookies eaten during the contest?

_____ 7. What percent of contestants ate more than 8 cookies?

_____ 8. What number represents the 3rd Quartile (upper)?

_____ 9. If 20 contestants participated in the contest, how many contestants ate less than 8 cookies?

_____ 10. What was the least amount of cookies eaten during the contest?

For questions 11 – 15, refer to the box & whisker graph below which shows the amount items cost in a vending machine.

Price of vending machine snacks (in dollars)

| | | | | |
| 0 | 0.2 | 0.4 | 0.6 | 0.8 | 1 |

_____ 11. How much was the most expensive item in the vending machine?

_____ 12. What percent of items were over $0.60?

_____ 13. What was the price of the least expensive item in the vending machine?

_____ 14. What percent of the items are between $0.60 and $0.80?

_____ 15. What is the range of prices in the vending machine?

For questions 16 – 20, refer to the box & whisker graph below. I surveyed my friends and asked how many pairs of shoes they own. The box-and-whisker below shows the results of the data I collected.

Pairs of Shoes Owned

| 0 | 3 | 6 | 9 | 12 | 15 |

_____ 16. What was the lowest number of pairs of shoes owned?

_____ 17. What percent of my friends own less than 11 pairs of shoes?

_____ 18. What is the value of the 1st Quartile (lower)?

_____ 19. What was the largest amount of shoes owned?

_____ 20. What percent of my friends own between 4 and 8 pairs of shoes?