

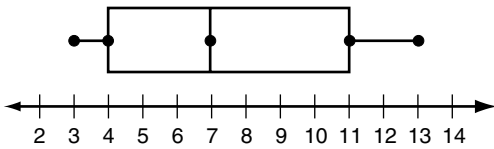
**CHAPTER 11** **Quiz**  
**Lessons 11-5 to 11-6**

Select the best answer.

- Which is the median of the data set {1, 4, 4, 4, 5, 8, 8, 10, 11, 11}?  
**A** 4                                   **C** 6.6  
**B** 6.5                                   **D** 7
- The Nobel Prize for Physics is often given to more than one person. The probability distribution of the number of winners of the Nobel Prize for Physics from 1901 to 2004 is given below. What is the expected number of winners?

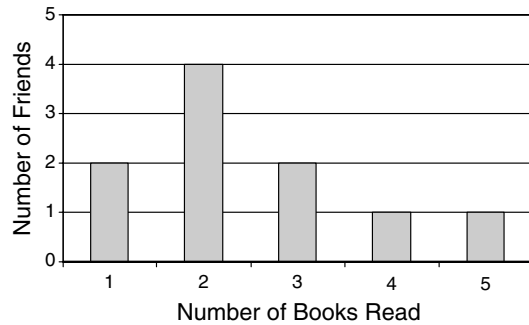
Number of Winners $n$	1	2	3
Probability of $n$ Winners	0.480	0.265	0.255

- F** 0.03                                   **H** 1.78  
**G** 1.00                                   **J** 1.98
- Which data set could be used to create the box-and-whisker plot shown below?



- A** {4, 4, 4, 4, 6, 6, 8, 9, 11, 11, 11}  
**B** {3, 4, 4, 4, 5, 7, 8, 10, 11, 12, 13}  
**C** {2, 3, 4, 4, 5, 7, 8, 9, 11, 13, 14}  
**D** {3, 3, 3, 4, 7, 7, 11, 11, 13, 13, 13}
- The numbers of absent days a student had in the last five months are {0, 4, 2, 0, 3}. What is the approximate variance of this data?  
**F** 1.6                                   **H** 2.6  
**G** 1.8                                   **J** 2.8
  - What is the expansion of the binomial  $(2k + 4)^4$ ?  
**A**  $16k^4 + 8k^3 + 8k^2 + 64k + 256$   
**B**  $16k^4 + 32k^3 + 64k^2 + 128k + 256$   
**C**  $16k^4 + 64k^3 + 128k^2 + 256k + 256$   
**D**  $16k^4 + 128k^3 + 384k^2 + 512k + 256$

- At a security checkpoint, one in 8 vehicles is selected for a thorough search. If a convoy of 10 vehicles travels through the checkpoint, what is the approximate probability that exactly 2 of the vehicles will be searched?  
**F** 0.24                                   **H** 0.52  
**G** 0.48                                   **J** 0.76
- What is the approximate standard deviation of the data set {1, 1, 6, 8, 10, 12}?  
**A** 4.2                                   **C** 17.6  
**B** 6.3                                   **D** 38.0
- Jackie surveys her friends to see how many books they've read in the last two months. The results are shown in the graph below.



- What is the expected number of books read by Jackie's friends?  
**F** 2.0                                   **H** 2.5  
**G** 2.3                                   **J** 2.8
- This quiz has 9 questions with 4 options for each question. If a student chooses answers randomly, what is the probability that he will get at least 7 answers incorrect?

- A** 0.22                                   **C** 0.60  
**B** 0.40                                   **D** 0.78

# Answer Key continued

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## Section Quiz: Lessons 11-5 to 11-6

1. B
2. H
3. B
4. H
5. D
6. F
7. A
8. H
9. C

## Chapter Test Form A

1. B
2. B
3. A
4. A
5. A
6. B
7. A
8. A
9. C
10. A
11. D
12. A
13. C
14. B
15. A
16. D
17. D

## Chapter Test Form B

1. D
2. G
3. C

4. G
5. B
6. G
7. A
8. F
9. B
10. F
11. D
12. F
13. B
14. G
15. C
16. H
17. A

## Chapter Test Form C

1. C
2. G
3. C
4. J
5. B
6. H
7. B
8. H
9. C
10. G
11. C
12. H
13. B
14. F
15. C
16. G
17. B