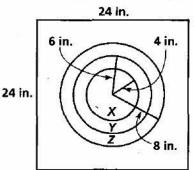
## **Practice 7-8**

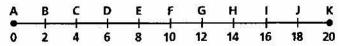
**Geometric Probability** 

Use the dartboard at the right for Exercises 1-3.

- 1. If a dart hits the board, find the probability that it will land in region X.
- 2. If a dart hits the board, find the probability that it will land in region Y.
- 3. If a dart hits the board, find the probability that it will land in region Z.



Find the probability that a point chosen at random from  $\overline{AK}$  is on the given segment.



4.  $\overline{CF}$ 

6. GK

7. <u>FG</u>

8. AK

- 9. AC
- 10. Roberto's trolley runs every 45 minutes. If he arrives at the trolley stop at a random time, what is the probability that he will not have to wait more than 10 minutes?
- 11. The state of Connecticut is approximated by a rectangle 100 mi by 50 mi. Hartford is approximately at the center of Connecticut. If a meteor hit the earth within 200 mi of Hartford, find the probability that the meteor landed in Connecticut.
- 12. A stop light at an intersection stays red for 60 seconds, changes to green for 45 seconds, and then turns yellow for 15 seconds. If Jamal arrives at the intersection at a random time, what is the probability that he will have to wait at a red light for more than 15 seconds?

In each figure, a point between A and B on the number line is chosen at random. What is the probability that the point is between C and L?



15. 
$$A \ C \ D \ B$$
 16.  $A \ C$  16.  $A \ C$  3.  $A \ C$  4.  $A \ C$  3.  $A \ C$  4.  $A \ C$  3.  $A \ C$  4.  $A \ C$  4.  $A \ C$  6.  $A \ C$  6.  $A \ C$  6.  $A \ C$  7.  $A \ C$  9.  $A \ C$