Practice B
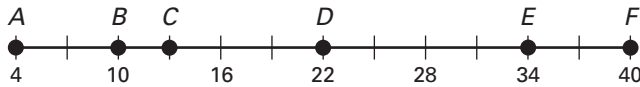
For use with pages 699–705
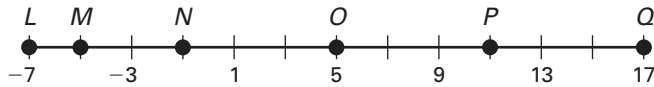
Find the probability that a point *K*, selected randomly on $\overline{AF}$, is on the given segment.

1. $\overline{AB}$ **2.** $\overline{CD}$

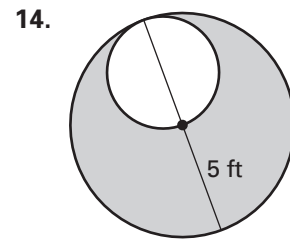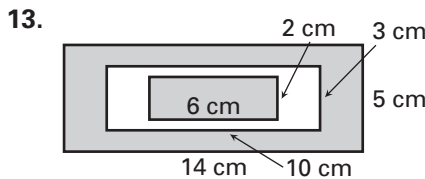**3.** $\overline{BD}$ **4.** $\overline{CF}$

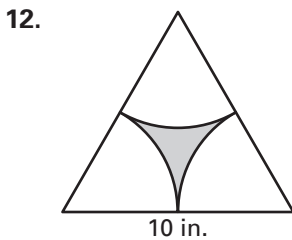A   B   C   D   E   F
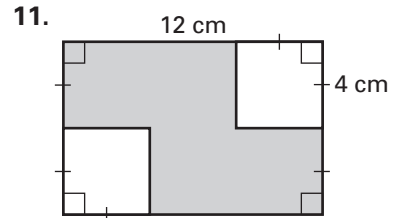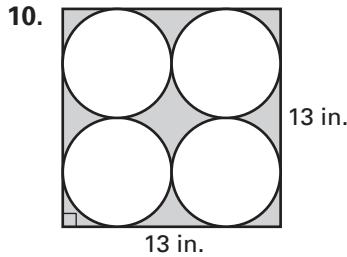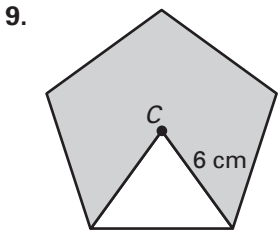4   10   16   22   28   34   40

Find the probability that a point *X*, selected randomly on $\overline{LQ}$, is on the given segment.

5. $\overline{LM}$ **6.** $\overline{NP}$

7. $\overline{OQ}$ **8.** $\overline{MQ}$

L   M   N   O   P   Q
−7   −3   1   5   9   13   17

Find the probability that a randomly chosen point in the figure lies in the shaded region.

9.

C

6 cm

10.

13 in.

13 in.

11.

12 cm

4 cm

12.

10 in.

13.

2 cm   3 cm

6 cm

5 cm

14 cm   10 cm

14.

5 ft

School Day **In Exercises 15 and 16, use the following information.**

The school day consists of four block classes, each 90 minutes long. Lunch is 30 minutes. Passing time between classes and/or lunch is 5 minutes.

15. If there is a fire drill at a random time during the day, what is the probability that it begins during lunch?

16. At a random time during a class, your teacher poses the "Question of the Day." If you are 10 minutes late for class, what is the probability that you miss hearing the question?

17. *Buses* Buses arrive at a resort hotel every 30 minutes. They wait for 5 minutes while passengers get off and on, and then the buses depart. What is the probability that there is a bus waiting when a hotel guest walks out of the door at a randomly chosen time?