

Name _____

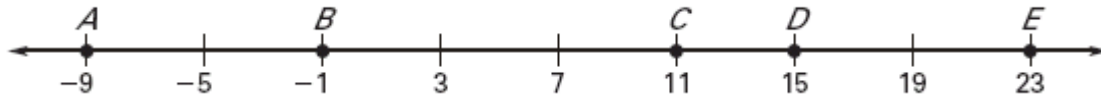
Date _____

LESSON 11.7

Practice C

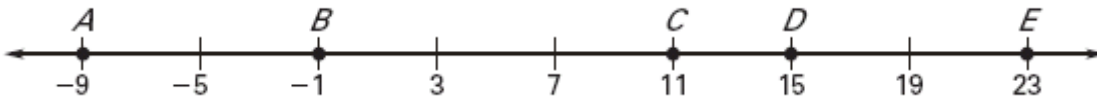
For use with pages 770–77

Find the probability that a point K , selected randomly on \overline{AE} , is on the given segment. Express your answer as a fraction, decimal, and percent.



1. \overline{AC}
2. \overline{BD}
3. \overline{CE}
4. \overline{AD}

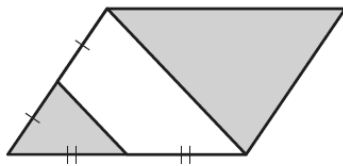
A point is chosen on \overline{AE} . Determine the probability described.



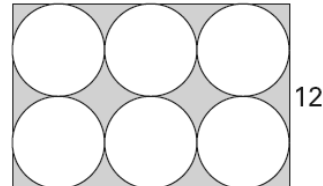
5. The point is closer to point B than to point E .
6. The point is closer to point C than to point A .

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

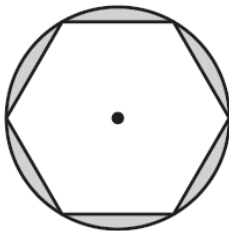
7.



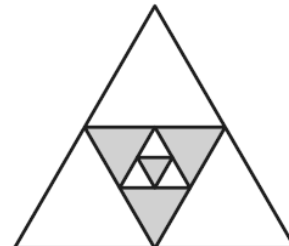
8.



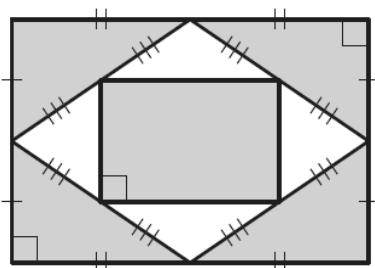
9.



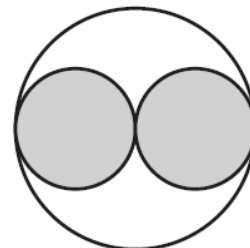
10.



11.

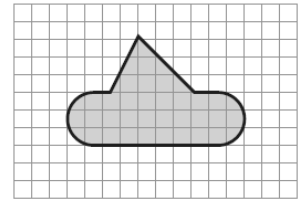


12.



Use the scale drawing.

13. What is the approximate area of the shaded figure in the scale drawing?

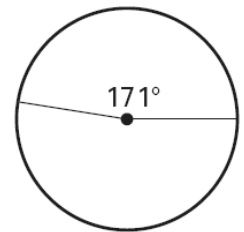


14. Find the probability that a randomly chosen point lies in the shaded region.

15. Find the probability that a randomly chosen point lies outside of the shaded region.

The figure to the right shows a circle with a sector that intercepts an arc of 171° .

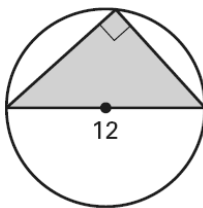
16. Find the probability that a randomly chosen point on the circle lies on the arc.



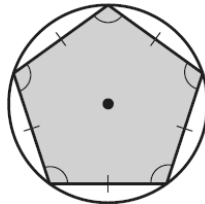
17. Find the probability that a randomly chosen point in the circle lies in the sector.

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

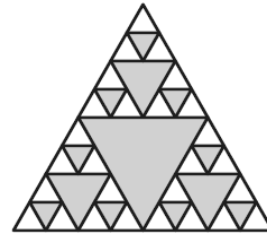
18.



19.



20.



21. You have planned to meet your friend at the mall at 4 P.M. The city bus runs every 15 minutes and the trip to the mall is 9 minutes. You arrive at the bus stop at 3:48 P.M. What is the probability that you will arrive at the mall by 4 P.M.?

22. You stop at the same convenience store each day to get a refill of your travel mug. The coffee decanter holds 128 ounces and your mug is 32 ounces. What is the probability that on any given day you will have to tell the store manager that the coffee is out and they need to make more?