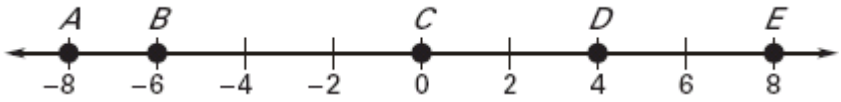
Name _____ **Date** _____

LESSON 11.7

Practice B

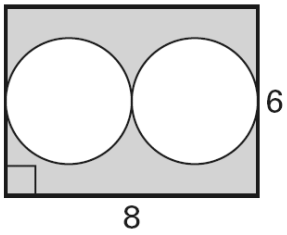
For use with pages 770–777

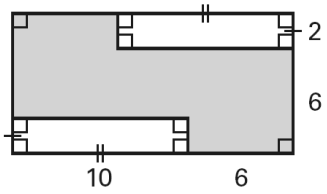
Find the probability that a point *K* selected randomly on $\overline{AE}$, is on the given segment. Express your answer as a fraction, decimal, and percent.

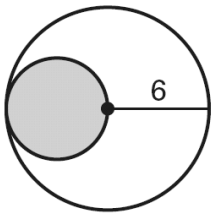


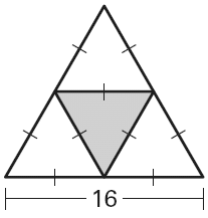
1. $\overline{BC}$
2. $\overline{BD}$
3. $\overline{CE}$
4. $\overline{AD}$

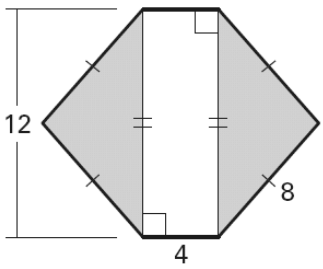
Find the probability that a randomly chosen point in the figure lies in the shaded region.

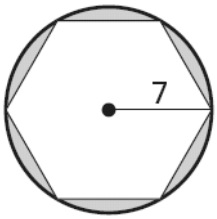
5. 

6. 

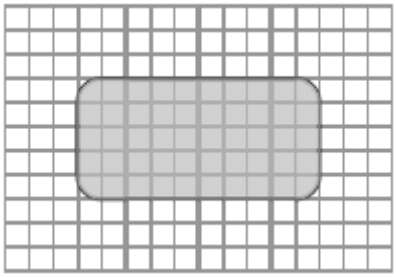
7. 

8. 

9. 

10. 

Use the scale drawing.



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

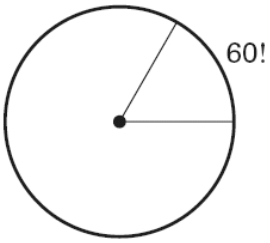
12. Find the probability that a randomly chosen point lies in the shaded region.

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

14. A circular bucket with a diameter of 18 inches is placed inside a two foot cubic box. A small ball is thrown into the box. Find the probability that the ball lands in the bucket.

Use the following information.

The figure to the right shows a circle with a sector that intercepts an arc of 60°.

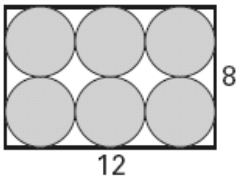


15. Find the probability that a randomly chosen point on the circle lies on the arc.

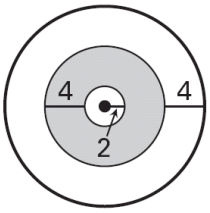
16. Find the probability that a randomly chosen point in the circle lies in the sector.

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

17.



18.



The school day consists of six block classes with each being 60 minutes long. Lunch is 25 minutes. Transfer time between classes and/or lunch is 3 minutes. There is a fire drill scheduled to happen at a random time during the day.

19. What is the probability that the fire drill begins during lunch?

20. What is the probability that the fire drill begins during transfer time?

21. If you are 2 hours late to school, what is the probability that you missed the fire drill?