



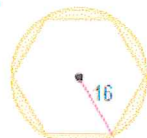
11.3 & 11.5 Review

Find the area of each polygon. Round to the nearest tenth. (Lesson 11-3)

- 12. regular hexagon with apothem length of 14 millimeters **679.0 mm²**
- 13. regular octagon with a perimeter of 72 inches **391.1 in²**

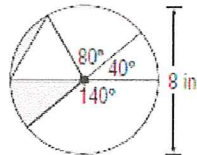
Find the area of each shaded region. Assume that all polygons are regular. Round to the nearest tenth. (Lesson 11-3)

- 14.  **1208.115 units²**  **216.6 units²**

- 37.  **139.1 units²**

For Questions 2 and 3, refer to the figure.

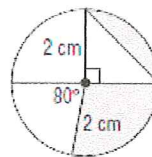
- 2. Find the probability that a point chosen at random lies in the shaded sector of the circle.
- 3. Find the probability that a point chosen at random lies in the shaded segment of the circle.



- 2. 5.6 in²
- 3. 1.4 in²

For Questions 4 and 5, refer to the figure.

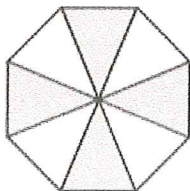
- 4. Find the probability that a point chosen at random lies in the shaded sector of the circle.
- 5. Find the probability that a point chosen at random lies in the shaded segment of the circle.



- 4. 3.5 cm²
- 5. 1.1 cm²

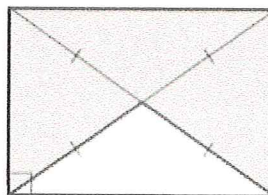
Find the probability that a randomly chosen point lies in the shaded region. Express each probability as a decimal to the nearest hundredth.

1.



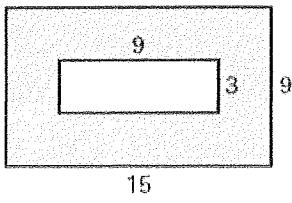
0.5

2.



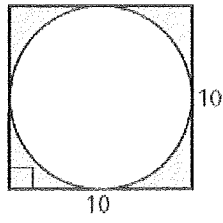
0.75

3.



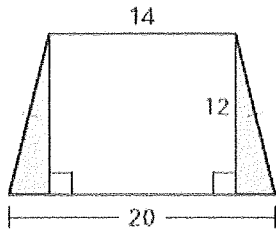
0.8

4.



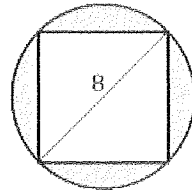
0.21

5.



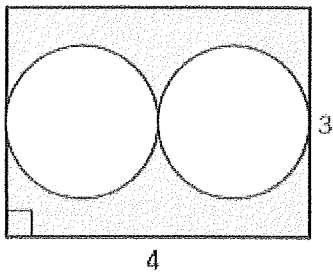
0.18

6.



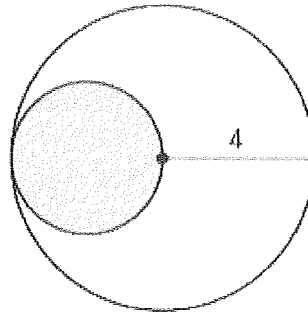
0.36

7.



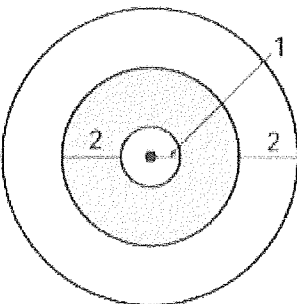
0.48

8.



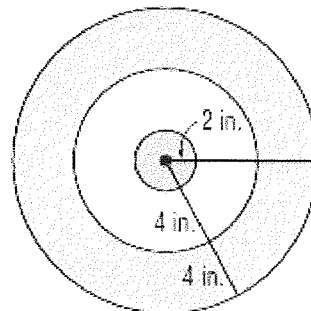
0.25

9.



0.32

10.



0.68

11. Find the probability for each outcome on the game spinner shown at the right.

a) Receive a free spin

$$0.25$$

b) Lose a turn

$$0.39$$

c) Receive 10 bonus points

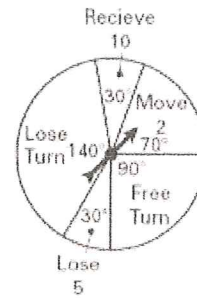
$$0.08$$

d) Move forward 2 spaces

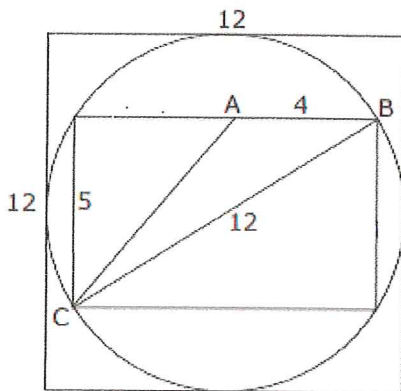
$$0.19$$

e) Lose 5 points

$$0.08$$



Triangle ABC is inscribed in a rectangle, which is inscribed in a circle, which is inscribed in a square. Express each probability as a percent to the nearest tenth.



21. What is the probability that a pebble dropped on the figure will land *only* in the triangle ABC ?

$$6.9\% \quad \frac{10}{144}$$

22. What is the probability that the pebble will land in the rectangle but *not* in the triangle ABC ?

$$30.9\% \quad \frac{(5\sqrt{19}) - 10}{144}$$

23. What is the probability that the pebble will land in the circle, but *not* in the rectangle or triangle ABC ?

$$40.7\% \quad \frac{36\pi - (5\sqrt{19})}{144}$$

24. What is the probability that the pebble will land in the square, but not the circle, rectangle or triangle ABC ?

$$21.5\% \quad \frac{144 - 36\pi}{144}$$