Name: _____ Date: _____

Geometric Probability Practice 2020

Find the area of the shaded region and the probability that a point chosen at random lies in the shaded region. Round your answers to the nearest tenth and percentages.
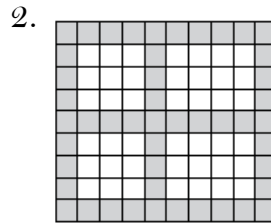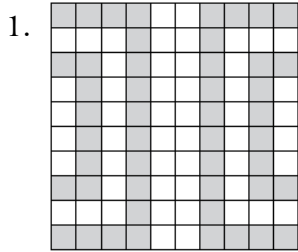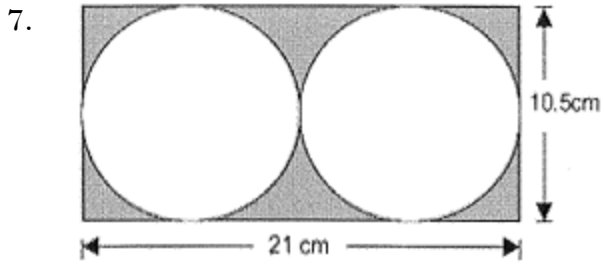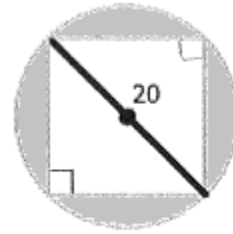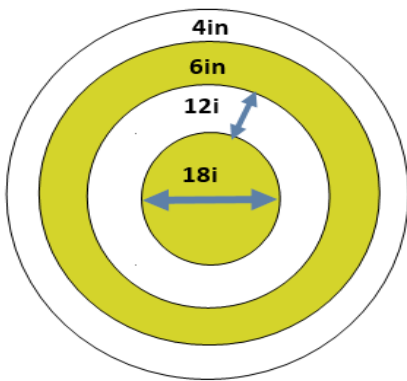
1.

2.

3.

24

24

4.

2 cm
3 cm
1 cm

5.

50°
70° 120°
120°

10 cm

6.

45° 80° 60°
90° 35°
50°

18 in.

7.

10.5cm

21 cm
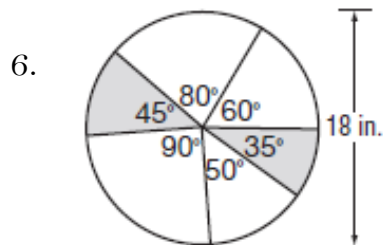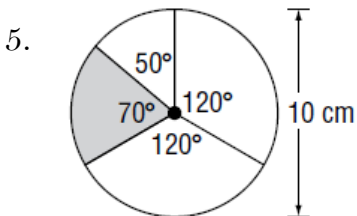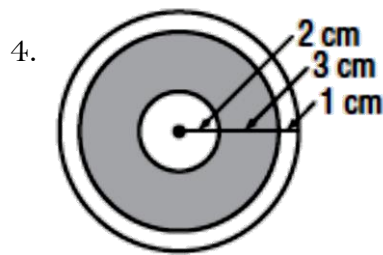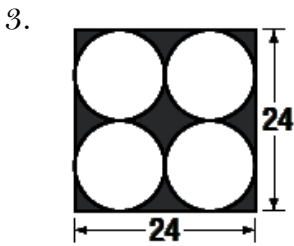
8. A square with a diagonal of 20 units.

20

9. Some units were cut off, assume all are inches.

4in
6in
12i
18i

Solutions:
1.) 48.0%   2.)53.0%
3.) A_s= 123.6units^2 P(S)= 21.5%
4.) A_s= 65.973cm^2 P(S)= 58.3%
5.) A_s= 15.272cm^2 P(S)= 19.4%
6.) A_s=56.549in ^{2} P(S)= 22.2%
7.) A_s= 47.320cm^2 P(S)= 21.5%
8.) A_s= 114.159units^2 P(S)= 36.3%
9.) A_s=1159.248in ^{2} P(S)= 38.4%