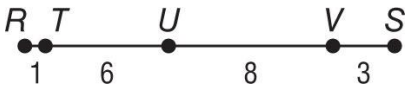
NAME _____ DATE _____ PERIOD _____

13-3 Practice
Geometric Probability

Point L is chosen at random on $\overline{RS}$. Find the probability of each event.

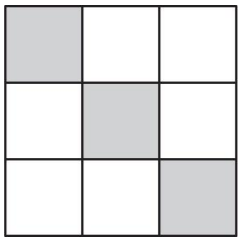
1. $P(L \text{ is on } \overline{TV})$ $\frac{7}{9}$, $0.\overline{7}$, or about 78%



2. $P(L \text{ is on } \overline{US})$ $\frac{11}{18}$, $0.6\overline{1}$ or about 61%

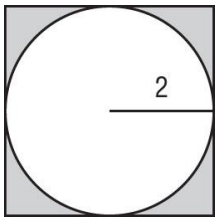
Find the probability that a point chosen at random lies in the shaded region.

3.



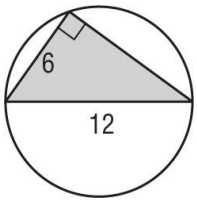
$\frac{1}{3}$, $0.\overline{3}$, or about 33%

4.



$\frac{4-\pi}{4} \approx 0.21$ or about 21%

5.

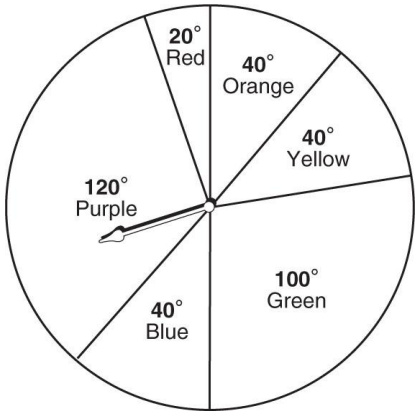


$\frac{\sqrt{3}}{2\pi} \approx 0.28$ or about 28%

Use the spinner to find each probability. If the spinner lands on a line it is spun again.

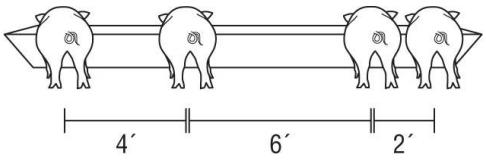
6. P(pointer landing on purple) $\frac{1}{3}$, $0.\overline{3}$, or about 33%

7. P(pointer landing on red) $\frac{1}{18}$, $0.0\overline{5}$, or about 6%



8. PIGS Four pigs are lined up at the feeding trough as shown in the picture. What is the probability that when a fifth pig comes to eat it lines up between the second and third pig?

0.5, 50%



9. MUSIC A certain company plays Mozart's *Eine Kleine Nachtmusik* when its customers are on hold on the telephone. If the length of the complete recording is 2 hours long, what is the probability a customer put on hold will hear the Allegro movement, which is 6 minutes, 31 seconds long?

approx. 0.054, or about 5%