



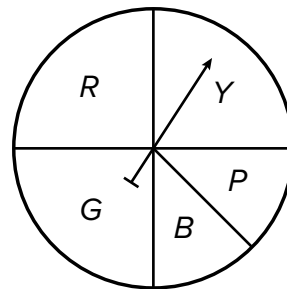
Practice

Playing with Probability

- Six papers are placed in a bag with names written on them. The names are: Lin, Mai, Mai, Noah, Priya, and Priya. If one name is chosen at random, what is the probability that it is Priya?
 - $\frac{1}{4}$
 - $\frac{1}{6}$
 - $\frac{2}{4}$
 - $\frac{2}{6}$
- Select **all** of the words for which the probability of selecting the letter E at random is $\frac{1}{3}$.
 - THE
 - BEST
 - SNEEZE
 - FREES
 - SPEECH
- Design a situation where the probability of one event is $\frac{1}{5}$ and another event is $\frac{1}{10}$. Explain your reasoning.

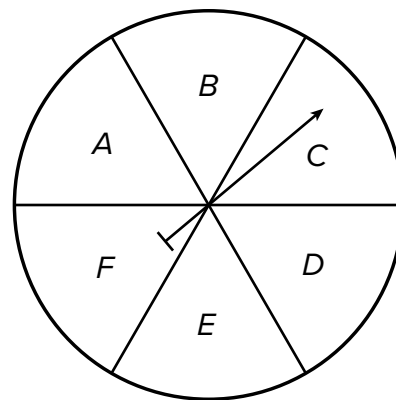
- What is the probability of the spinner landing on the section labeled B? (Lesson 8-1)

- $\frac{1}{8}$
- $\frac{1}{5}$
- $\frac{1}{4}$
- $\frac{1}{2}$



NAME _____ DATE _____ PERIOD _____

5. This spinner is spun 300 times. Estimate the number of times it would be expected to land on the section labeled B. (Lesson 8-1)



6. A circle has radius 5 units. For each angle measure, find the area of a sector of this circle with that central angle. (Lesson 7-13)
- a. π radians

b. 3 radians

7. Select **all** formulas that could be used to find the area of this sector. The angle θ is measured in radians. (Lesson 7-13)

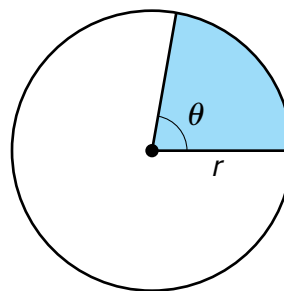
A. $\frac{1}{2}r^2\theta$

B. $\frac{\theta}{2\pi} \cdot \pi r^2$

C. $\frac{\theta}{360} \cdot \pi r^2$

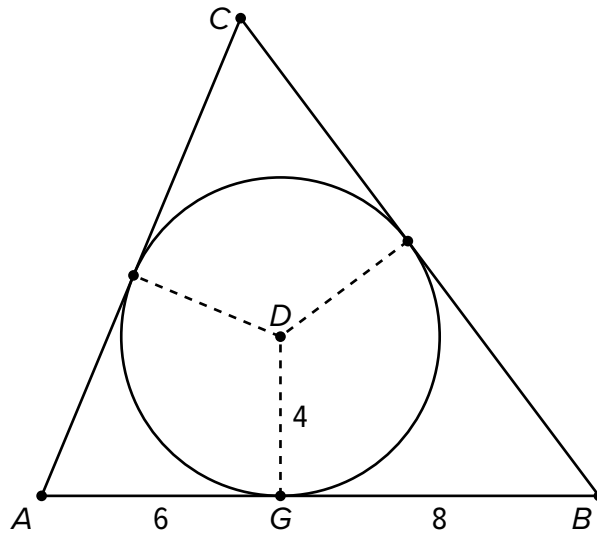
D. $\frac{\pi^2}{r} \cdot \theta$

E. $\frac{\theta}{2\pi} \cdot 2\pi r$



8. Triangle ABC is shown with an inscribed circle of radius 4 units centered at point D . The inscribed circle is tangent to side AB at point G . The length of AG is 6 units and the length of BG is 8 units. What is the measure of angle B ? (Lesson 7-7)

- (A) 60 degrees
- (B) 30 degrees
- (C) $2 \arctan\left(\frac{1}{2}\right)$
- (D) $\arctan\left(\frac{1}{2}\right)$



9. Select **all** the true statements. (Lesson 4-3)

- (A) Angle C is 30 degrees.
- (B) Side AC is 5 units.
- (C) Side AB is 5 units.
- (D) Side AC is $5\sqrt{2}$ units.
- (E) Side AC is $10\sqrt{3}$ units.

