### Lesson 2 Practice Problems

1. 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?
	1. $\frac{1}{4}$
	2. $\frac{1}{6}$
	3. $\frac{2}{4}$
	4. $\frac{2}{6}$
2. Select **all** of the words for which the probability of selecting the letter E at random is $\frac{1}{3}$.
	1. THE
	2. BEST
	3. SNEEZE
	4. FREES
	5. SPEECH
3. Design a situation where the probability of one event is $\frac{1}{5}$ and another event is $\frac{1}{10}$. Explain your reasoning.
4. What is the probability of the spinner landing on the section labeled B?
* 
	1. $\frac{1}{8}$
	2. $\frac{1}{5}$
	3. $\frac{1}{4}$
	4. $\frac{1}{2}$
* (From Unit 8, Lesson 1.)
1. This spinner is spun 300 times. Estimate the number of times it would be expected to land on the section labeled B.
* 
* (From Unit 8, Lesson 1.)
1. A circle has radius 5 units. For each angle measure, find the area of a sector of this circle with that central angle.
	1. $π$ radians
	2. 3 radians
* (From Unit 7, Lesson 13.)
1. Select **all** formulas that could be used to find the area of this sector. The angle $θ$ is measured in radians.
* 
	1. $\frac{1}{2}r^{2}θ$
	2. $\frac{θ}{2π}⋅πr^{2}$
	3. $\frac{θ}{360}⋅πr^{2}$
	4. $\frac{π^{2}}{r}⋅θ$
	5. $\frac{θ}{2π}⋅2πr$
* (From Unit 7, Lesson 13.)
1. 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 $B$?
* 
	1. 60 degrees
	2. 30 degrees
	3. $2arctan\left(\frac{1}{2}\right)$
	4. $arctan\left(\frac{1}{2}\right)$
* (From Unit 7, Lesson 7.)
1. Select **all**the true statements.
* 
	1. Angle $C$ is 30 degrees.
	2. Side $AC$ is 5 units.
	3. Side $AB$ is 5 units.
	4. Side $AC$ is $5\sqrt{2}$ units.
	5. Side $AC$ is $10\sqrt{3}$ units.
* (From Unit 4, Lesson 3.)



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