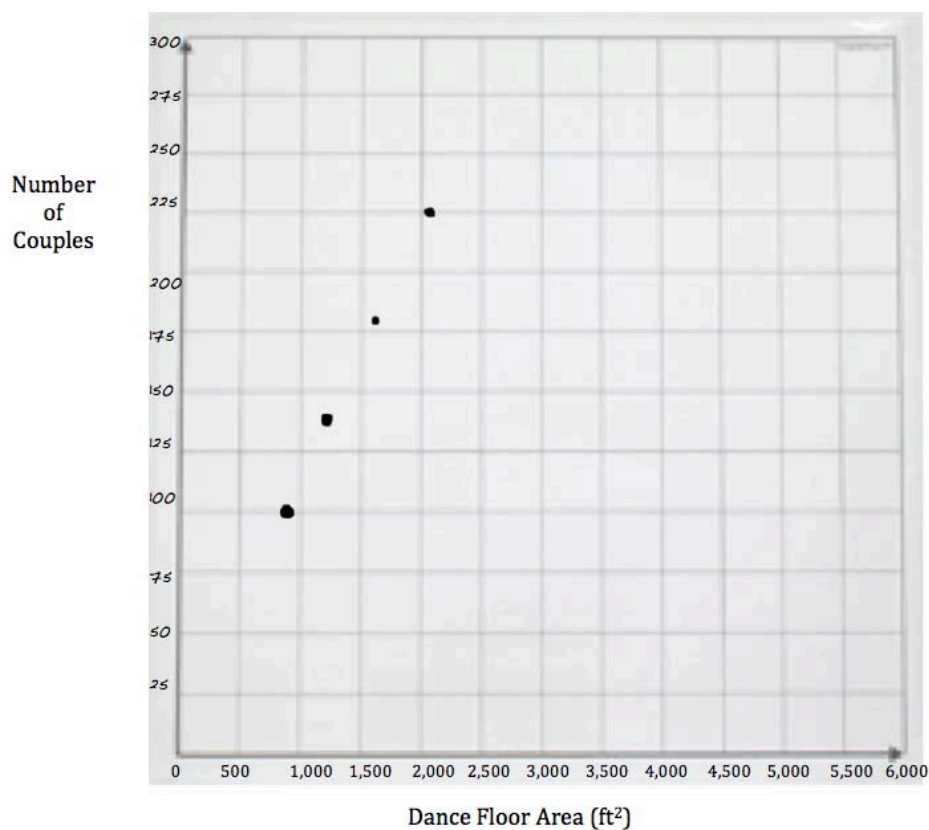


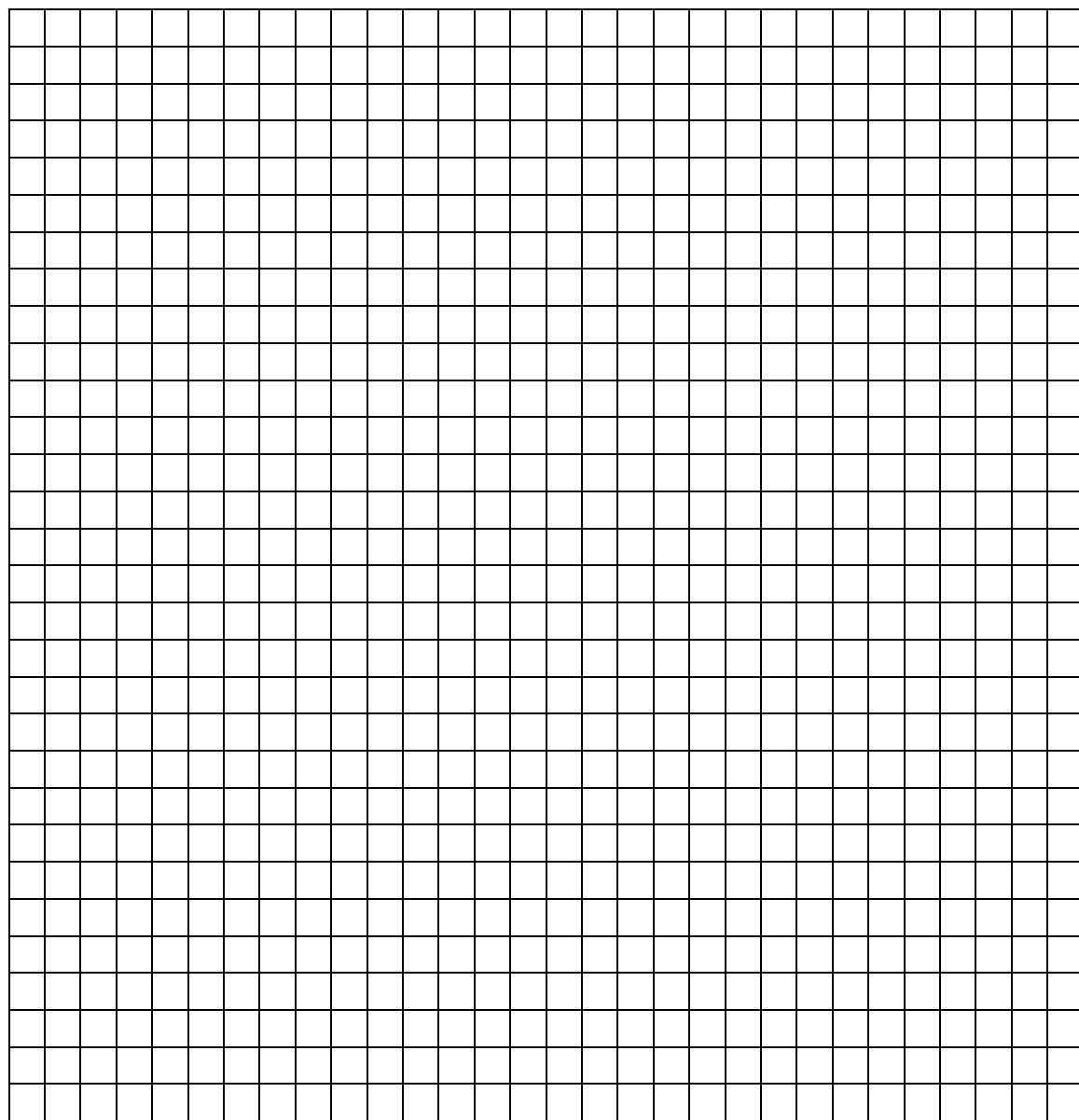
## Lesson 6: Resources

	Side Lengths	Area of the Dance Floor	Number of Couples
1 <sup>st</sup> increase	30 ft x 30 ft	900 ft <sup>2</sup>	100 couples
	35 ft x 35 ft	1,225 ft <sup>2</sup>	136 couples*
2 <sup>nd</sup> increase	40 ft x 40 ft	1,600 ft <sup>2</sup>	177 couples*
maximum increase	45 ft x 45 ft	2,025 ft <sup>2</sup>	225 couples



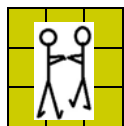
**Lesson 6: Resources– continued**

30 ft



30 ft

Unit rate  $9 \text{ ft}^2$  per couple



**Lesson 6: Resources– continued**

	<b>Side Lengths</b>	<b>Area of the Dance Floor</b>	<b>Number of Couples</b>	<b>Unit Rate area/couple</b>
	30 ft x 30 ft	(Question #1)	100 couples	
1 <sup>st</sup> increase				
2 <sup>nd</sup> increase				
3 <sup>rd</sup> increase				

**Lesson 6: Resources– continued**

	<b>Side Lengths (x)</b>	<b>Area of the Dance Floor</b>	<b>Number of Couples (y)</b>	<b>Unit Rate (Area/couple)</b>
	12 ft x 12 ft	(Question #1)	16 couples	
1 <sup>st</sup> increase				
2 <sup>nd</sup> increase				
3 <sup>rd</sup> increase				