


Concept: Geometric Probabilities

Name:


COMPUTER COMPONENT

Instructions: Select the computer program *Understanding Probability* (Neufeld)
 Follow the instructions to the Main Menu.
 Select *Geometric Probabilities* from the Main Menu.



Work through all sections of the following topics **in order**:

<ul style="list-style-type: none"> • <i>In this Topic</i> • <i>Introduction</i> • <i>The Parachutist</i> • <i>Dartboard</i> 	<ul style="list-style-type: none"> • <i>Win a Prize</i> • <i>The Fly</i> • <i>Baby Walk</i> • <i>Practice Questions</i>
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As you work through the computer exercises, make your own notes in the **SUMMARY** section of this page.

When you reach the end of the section *Practice Questions* on the computer, move on to the **OFF COMPUTER EXERCISES** below.

SUMMARY

> *Dartboard*

	Your Experiment		
	First	Second	Third
Number of Hits			
Experimental Probability			

	The Computer's Experiment		
	First	Second	Third
Number of Hits			
Experimental Probability			

The Theoretical Probability:

	First	Second	Third
Area of Ring			
Theoretical Probability			

How does the Theoretical Probability compare to the other two results?

> *Baby Walk*

$$P(\text{Zippy falls on carpet}) =$$

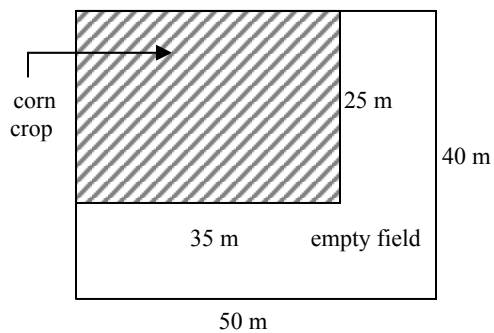
$$P(\text{Zippy falls on the floor}) = \underline{\hspace{2cm}} - P(\hspace{2cm})$$

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OFF COMPUTER EXERCISES

1. A Hot Air Balloon needs to land in a farmer's field. The field is laid out as follow
 What is the probability that the Balloon will ...



- (a) land on the empty field?
 (b) land in the corn?

2. Design your own probability question involving area. When you are finished your question, have a friend try it in order to check your answer.