


# Concept: Geometric Probabilities

Name: \_\_\_\_\_

## COMPUTER COMPONENT

**Instructions:** In  follow the **Content Menu** path:

**Probability > Geometric Probabilities**



Work through all Sub Lessons of the following Lessons **in order**:

- *In this Topic*
- *Introduction*
- *The Parachutist*
- *Dartboard*
- *Win a Prize*
- *The Fly*
- *Baby Walk*



As you work through the computer exercises, you will be prompted to make notes in your notebook/math journal.

## SUMMARY

### 1. *Dartboard*

Record your findings from the Dartboard experiment in the tables below.

#### 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?

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### 2. *Baby Walk*

Record your calculations in the spaces provided.

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

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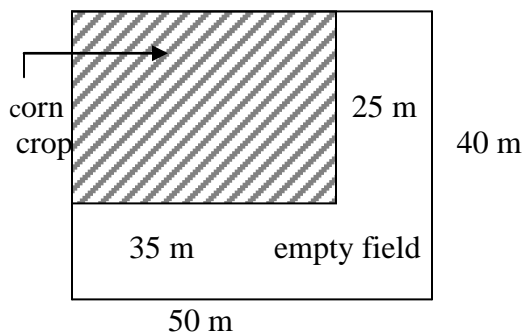
$$P(\text{Zippy falls on the floor}) = \underline{\hspace{2cm}} - P(\underline{\hspace{2cm}})$$

$$= \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}}$$

### OFF COMPUTER EXERCISES

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



(a) What is the probability that the Hot Air Balloon will land in the empty field?

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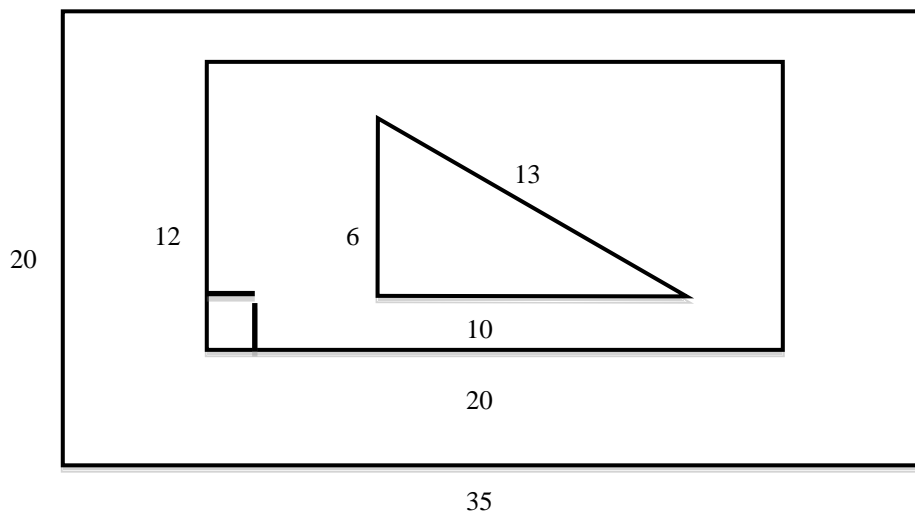
(b) What is the probability that the Hot Air Balloon will land in the corn crop?

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2. What is the probability that a missing sailboat is somewhere in the triangular region below, given that from radio transmissions it is known to have capsized somewhere in the smaller rectangular region?




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

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