

INVESTIGATION 5

What are the risks?

Name

Make your prediction

1. What sum of the dice do you predict would occur most often after 150 rolls?

2. What sum of the dice do you predict would occur least often after 150 rolls?

Enter your data

Dice Sums	50 rolls	Total	100 rolls	Total	150 rolls	Total
Example:	<i>IV II</i>	7	<i>III</i>	4	<i>VI II VII</i>	12
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

INVESTIGATION 5

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Think it over

1. After 50, 100, and 150 tosses, which number combination was the most common?

50 Tosses _____

100 Tosses _____

150 Tosses _____

Did this finding surprise you? EXPLAIN:

2. What happened to the bar graph as you moved from 50 rolls of the dice to 150 rolls of the dice?

3. What is the probability of tossing a 6 with one die?

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Beat the Odds

List different events that you have either experienced, read about, or watched on television that might match the ratio or odds listed below

ODDS	Events
1 out of 10	_____ _____
1 out of 500	Sky diving (without the parachute opening) _____ _____
1 out Of 1,000	_____ _____

Find the odds

Event	Odds
Getting a "heads" in a coin flip	1 out of 2
Seeing a skunk get hit on a busy highway	_____
Having homework assigned on Friday	_____
Winning the state lottery	_____
Falling off your bike	_____
Seeing snow in September	_____
Finding a \$20 bill on the sidewalk	_____

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Take a look

1. Profession or Occupation Degree of Risk (each profession is compared to the risk of being an office worker)

Acrobat	3 times
Aquanaut (diver)	7 times
Bartender	2 times
Bridge Builder	3 times
Office worker	1 times
Fireman	3 times
Fuel Storage Tank Cleaner	5 times
Junk Dealer	1.5 times
Jockey	3 times
Search & Rescue Volunteer	5 times
Police Officer	3 times
Shallow -water Fisherman	2 times
Snake Milker	3 times
Wild Animal Trainer	8 times



1. Which profession has the highest level of risk? _____

2. Why is this job more of a risk than an office worker?

A person living in a home with a high level of radon has a health risk about 2 times greater than a fireman. What profession do you think would have the same amount of risk as someone living in a home with a high level of radon?

3. Name of profession: _____

4. Why did you select this profession? _____

5. What does risk mean to you?
