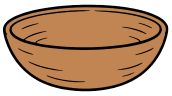
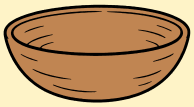
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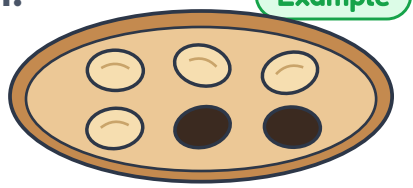
Bowl Game Probability

Count the dark sides in each shake of the bowl.



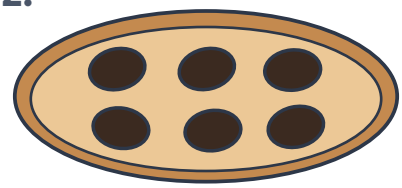
The Haudenosaunee bowl game, or peach stone game, is played at Midwinter: six peach stones, dark on one side and light on the other, are shaken in a wooden bowl. Scoring rules differ from place to place, so these pages only count the dark sides.

1. Example



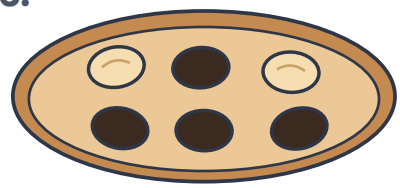
dark sides: 2

2.



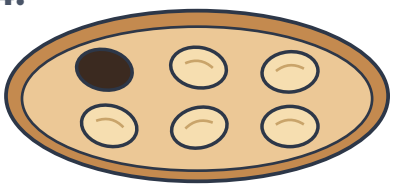
dark sides: _____

3.



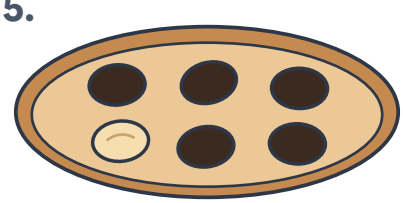
dark sides: _____

4.



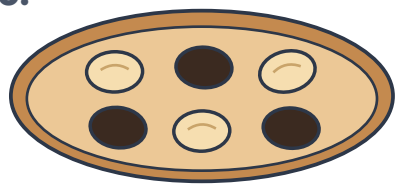
dark sides: _____

5.



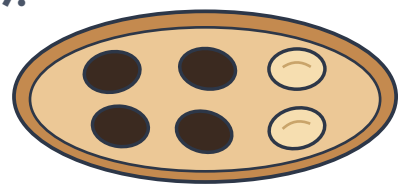
dark sides: _____

6.



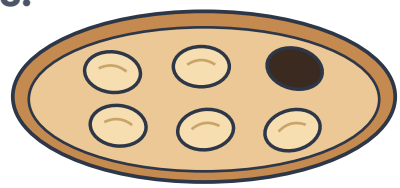
dark sides: _____

7.



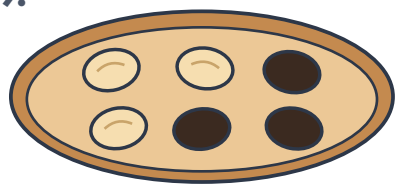
dark sides: _____

8.



dark sides: _____

9.



dark sides: _____

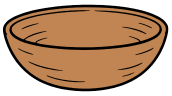
10. How many dark sides can **6** stones show? Write every count, least to most.

_____ _____ _____ _____ _____ _____ _____

How many different counts can six stones show? _____

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Name _____ Date _____



Bowl Game Probability

Tally the class's shakes. Then answer the questions.

A class played the bowl game and wrote down how many dark sides landed up in each of 40 shakes of six stones.

Dark sides in each shake

1	2	1	2	1
6	3	2	2	3
3	4	2	1	2
3	3	2	3	4
3	4	3	4	2
4	1	1	1	4
2	3	4	5	3
5	2	2	1	1

Dark sides	Tally	Shakes
0		
1		
2		
3		
4		
5		
6		

1. How many dark sides came up most often?

dark sides: _____

2. Add the Shakes column. Is the total 40?

total: _____

3. How many shakes had 5 or 6 dark sides?

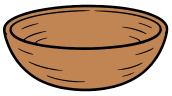
_____ shakes

4. How many shakes had fewer than 3 dark sides?

_____ shakes

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Name _____ Date _____

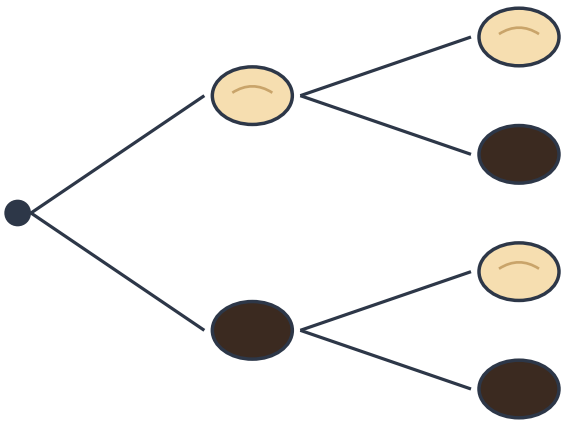


Bowl Game Probability

Find every way two stones can land. How likely is each?

Shake 2 stones. The first stone lands dark or light, and so does the second. Follow the tree to find every way.

1. Example



Dark	Ways	Chance
0	1	1/4
1		
2		

2. Write certain, likely, unlikely or impossible.

Two stones: both land dark side up. Example **unlikely**

Two stones: at least one lands dark side up. _____

Two stones: **3** dark sides land up. _____

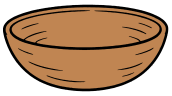
Two stones: **0**, **1** or **2** dark sides land up. _____

Six stones: all six land dark side up. _____

Six stones: at least one lands dark side up. _____

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Name _____ Date _____



Bowl Game Probability

All the ways three stones can land, and a class's results

All 8 ways three stones can land. Write the number of dark sides for each.

1. Example  dark: 0

2.  dark: ____

3.  dark: ____

4.  dark: ____

5.  dark: ____

6.  dark: ____

7.  dark: ____

8.  dark: ____

Ways and chances

Dark sides	Ways	Chance
0		
1		
2		
3		

A class shook 3 stones 40 times

Dark sides	Shakes	Expected
0	3	
1	16	
2	15	
3	6	

1. Expected shakes = 40 × the chance. How many shakes with 1 dark side were expected?

____ shakes

2. Which number of dark sides came closest to what was expected?

dark sides: ____

3. How many of the 8 ways give 1 or 2 dark sides?

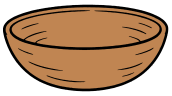
____ of 8

4. How many shakes had all 3 stones the same, all dark or all light?

____ shakes

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Name _____ Date _____

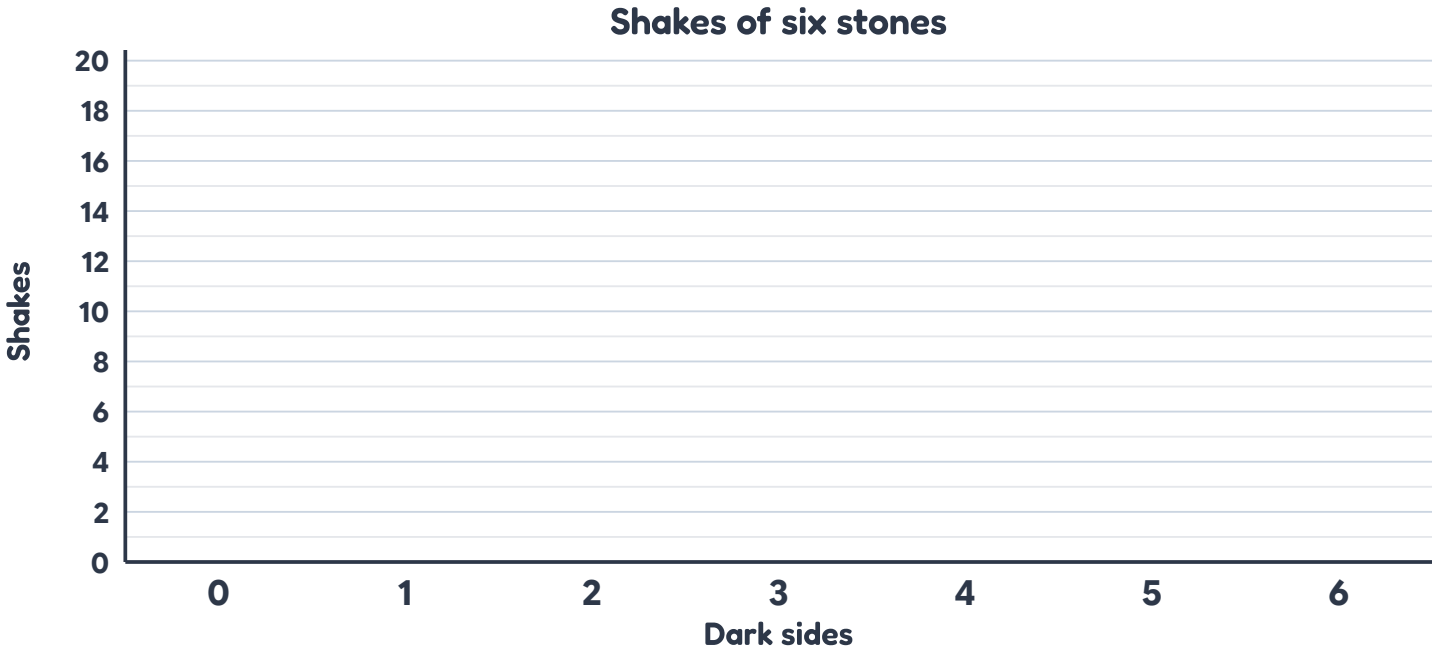


Bowl Game Probability

Draw the bar graph. Then answer the questions.

Another class shook six stones **50** times. The table shows how many shakes landed with each number of dark sides.

Dark sides	0	1	2	3	4	5	6
Shakes	1	4	11	16	12	5	1



1. Which number of dark sides came up most often?

   dark sides: _____

2. How many more shakes had **3** dark sides than **2**?

   _____ more

3. How many shakes had **4** or more dark sides?

   _____ shakes

4. What fraction of the **50** shakes had exactly **3** dark sides?

   _____

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Name _____ Date _____



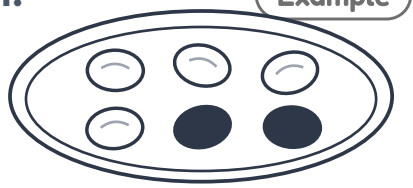
Bowl Game Probability

Count the dark sides in each shake of the bowl.



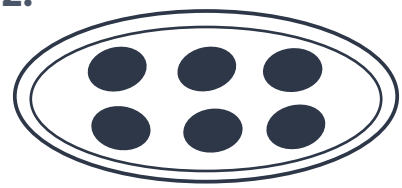
The Haudenosaunee bowl game, or peach stone game, is played at Midwinter: six peach stones, dark on one side and light on the other, are shaken in a wooden bowl. Scoring rules differ from place to place, so these pages only count the dark sides.

1. Example



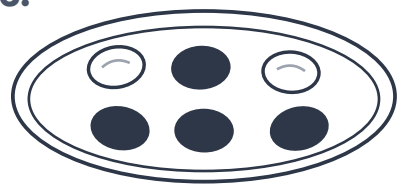
dark sides: **2**

2.



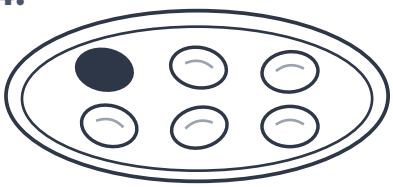
dark sides: _____

3.



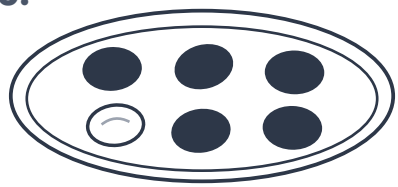
dark sides: _____

4.



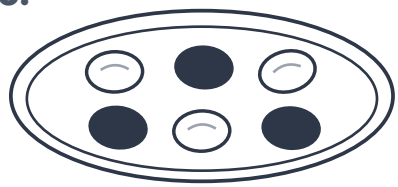
dark sides: _____

5.



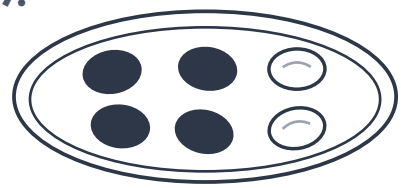
dark sides: _____

6.



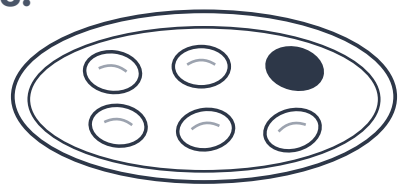
dark sides: _____

7.



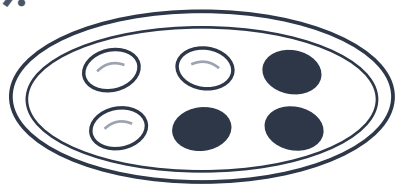
dark sides: _____

8.



dark sides: _____

9.



dark sides: _____

10. How many dark sides can **6** stones show? Write every count, least to most.

_____ _____ _____ _____ _____ _____ _____

How many different counts can six stones show? _____

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Name _____ Date _____



Bowl Game Probability

Tally the class's shakes. Then answer the questions.

A class played the bowl game and wrote down how many dark sides landed up in each of 40 shakes of six stones.

Dark sides in each shake

1	2	1	2	1
6	3	2	2	3
3	4	2	1	2
3	3	2	3	4
3	4	3	4	2
4	1	1	1	4
2	3	4	5	3
5	2	2	1	1

Dark sides	Tally	Shakes
0		_____
1		_____
2		_____
3		_____
4		_____
5		_____
6		_____

1. How many dark sides came up most often?

dark sides: _____

2. Add the Shakes column. Is the total 40?

total: _____

3. How many shakes had 5 or 6 dark sides?

_____ shakes

4. How many shakes had fewer than 3 dark sides?

_____ shakes

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Name _____ Date _____

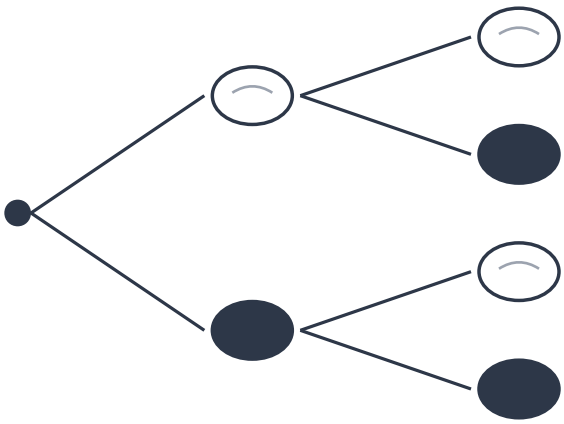


Bowl Game Probability

Find every way two stones can land. How likely is each?

Shake 2 stones. The first stone lands dark or light, and so does the second. Follow the tree to find every way.

1. Example



Dark	Ways	Chance
0	1	1/4
1		
2		

2. Write certain, likely, unlikely or impossible.

Two stones: both land dark side up. Example **unlikely**

Two stones: at least one lands dark side up. _____

Two stones: **3** dark sides land up. _____

Two stones: **0**, **1** or **2** dark sides land up. _____

Six stones: all six land dark side up. _____

Six stones: at least one lands dark side up. _____

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Name _____ Date _____



Bowl Game Probability

All the ways three stones can land, and a class's results

All 8 ways three stones can land. Write the number of dark sides for each.

1. Example



dark: 0

2.



dark: ____

3.



dark: ____

4.



dark: ____

5.



dark: ____

6.



dark: ____

7.



dark: ____

8.



dark: ____

Ways and chances

Dark sides	Ways	Chance
0		
1		
2		
3		

A class shook 3 stones 40 times

Dark sides	Shakes	Expected
0	3	
1	16	
2	15	
3	6	

1. Expected shakes = **40** × the chance. How many shakes with **1** dark side were expected?

____ shakes

2. Which number of dark sides came closest to what was expected?

dark sides: ____

3. How many of the **8** ways give **1** or **2** dark sides?

____ of 8

4. How many shakes had all **3** stones the same, all dark or all light?

____ shakes

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Name _____ Date _____

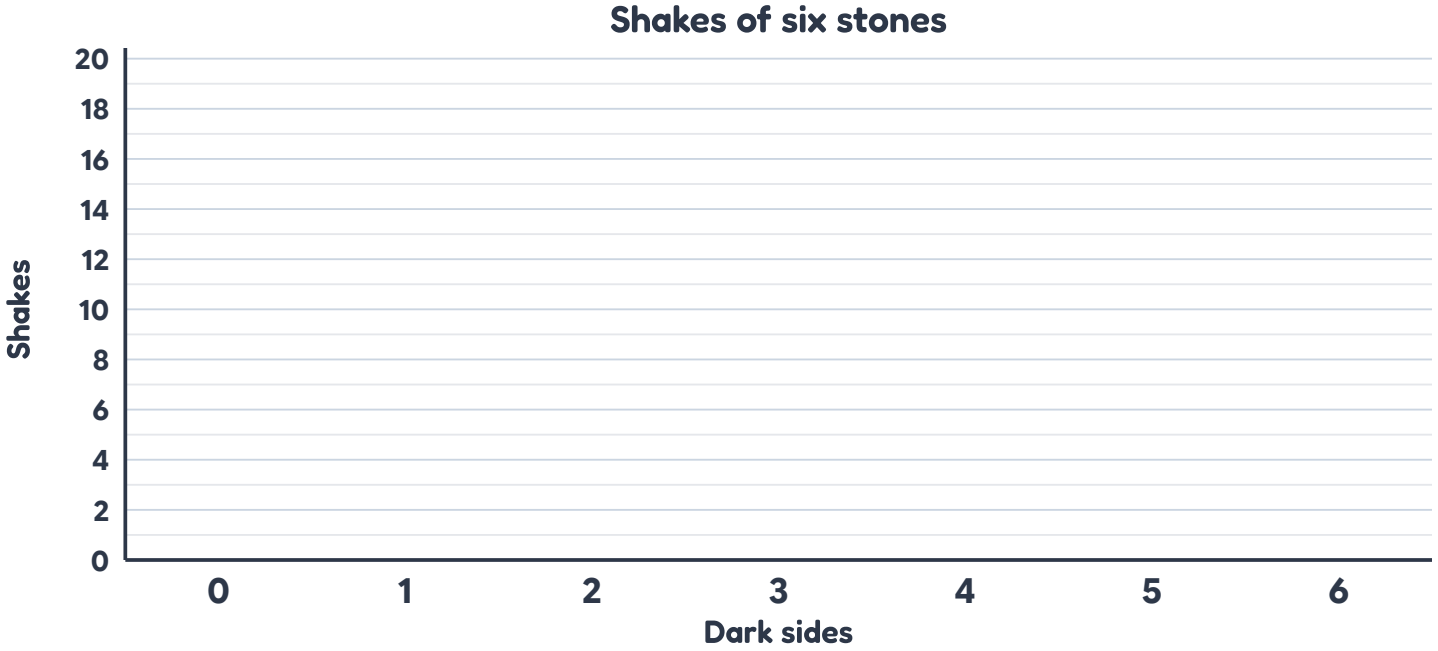


Bowl Game Probability

Draw the bar graph. Then answer the questions.

Another class shook six stones **50** times. The table shows how many shakes landed with each number of dark sides.

Dark sides	0	1	2	3	4	5	6
Shakes	1	4	11	16	12	5	1



1. Which number of dark sides came up most often?

   dark sides: _____

2. How many more shakes had **3** dark sides than **2**?

   _____ more

3. How many shakes had **4** or more dark sides?

   _____ shakes

4. What fraction of the **50** shakes had exactly **3** dark sides?

   _____

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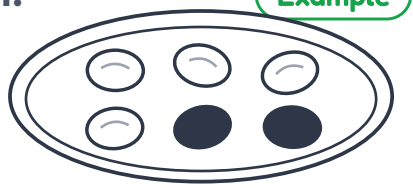
Bowl Game Probability

Count the dark sides in each shake of the bowl.



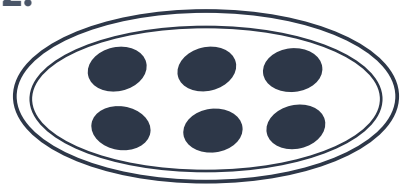
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1. Example



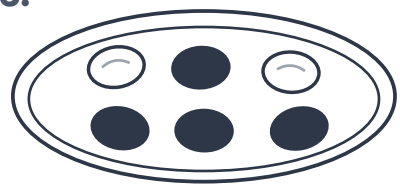
dark sides: 2

2.



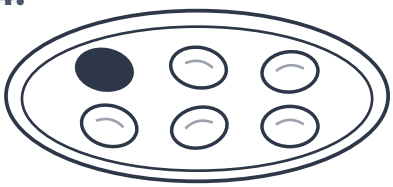
dark sides: 6

3.



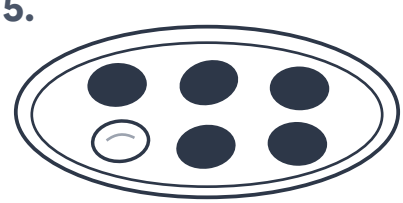
dark sides: 4

4.



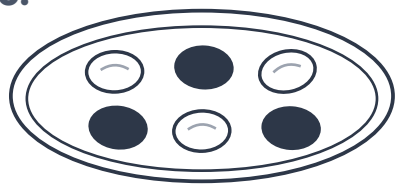
dark sides: 1

5.



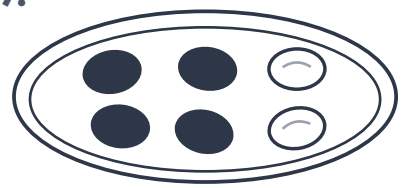
dark sides: 5

6.



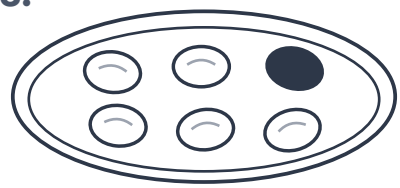
dark sides: 3

7.



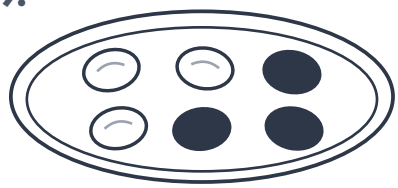
dark sides: 4

8.



dark sides: 1

9.



dark sides: 3

10. How many dark sides can **6** stones show? Write every count, least to most.

0 1 2 3 4 5 6

How many different counts can six stones show? 7

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Bowl Game Probability

Tally the class's shakes. Then answer the questions.

A class played the bowl game and wrote down how many dark sides landed up in each of 40 shakes of six stones.

Dark sides in each shake

1	2	1	2	1
6	3	2	2	3
3	4	2	1	2
3	3	2	3	4
3	4	3	4	2
4	1	1	1	4
2	3	4	5	3
5	2	2	1	1

Dark sides	Tally	Shakes
0		0
1	𝍸 ||||	9
2	𝍸 𝍸 |	11
3	𝍸 𝍸	10
4	𝍸 ||	7
5	||	2
6	|	1

1. How many dark sides came up most often?

dark sides: 2

2. Add the Shakes column. Is the total 40?

total: 40

3. How many shakes had 5 or 6 dark sides?

2 + 1 = 3

3 shakes

4. How many shakes had fewer than 3 dark sides?

0 + 9 + 11 = 20

20 shakes

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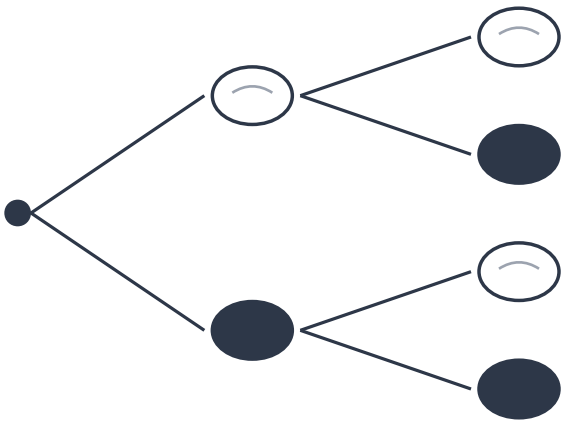


Bowl Game Probability

Find every way two stones can land. How likely is each?

Shake **2** stones. The first stone lands dark or light, and so does the second. Follow the tree to find every way.

1. Example



Dark	Ways	Chance
0	1	1/4
1	2	2/4
2	1	1/4

2. Write certain, likely, unlikely or impossible.

Two stones: both land dark side up. Example — unlikely

Two stones: at least one lands dark side up. — likely

Two stones: **3** dark sides land up. — impossible

Two stones: **0**, **1** or **2** dark sides land up. — certain

Six stones: all six land dark side up. — unlikely

Six stones: at least one lands dark side up. — likely

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Bowl Game Probability

All the ways three stones can land, and a class's results

All 8 ways three stones can land. Write the number of dark sides for each.

1. Example  dark: 0

2.  dark: 1

3.  dark: 1

4.  dark: 2

5.  dark: 1

6.  dark: 2

7.  dark: 2

8.  dark: 3

Ways and chances

Dark sides	Ways	Chance
0	1	1/8
1	3	3/8
2	3	3/8
3	1	1/8

A class shook 3 stones 40 times

Dark sides	Shakes	Expected
0	3	5
1	16	15
2	15	15
3	6	5

1. Expected shakes = **40** × the chance. How many shakes with **1** dark side were expected?

   40 × 3/8 = 15

   15 shakes

2. Which number of dark sides came closest to what was expected?

   dark sides: 2

3. How many of the **8** ways give **1** or **2** dark sides?

   3 + 3 = 6

   6 of 8

4. How many shakes had all **3** stones the same, all dark or all light?

   3 + 6 = 9

   9 shakes

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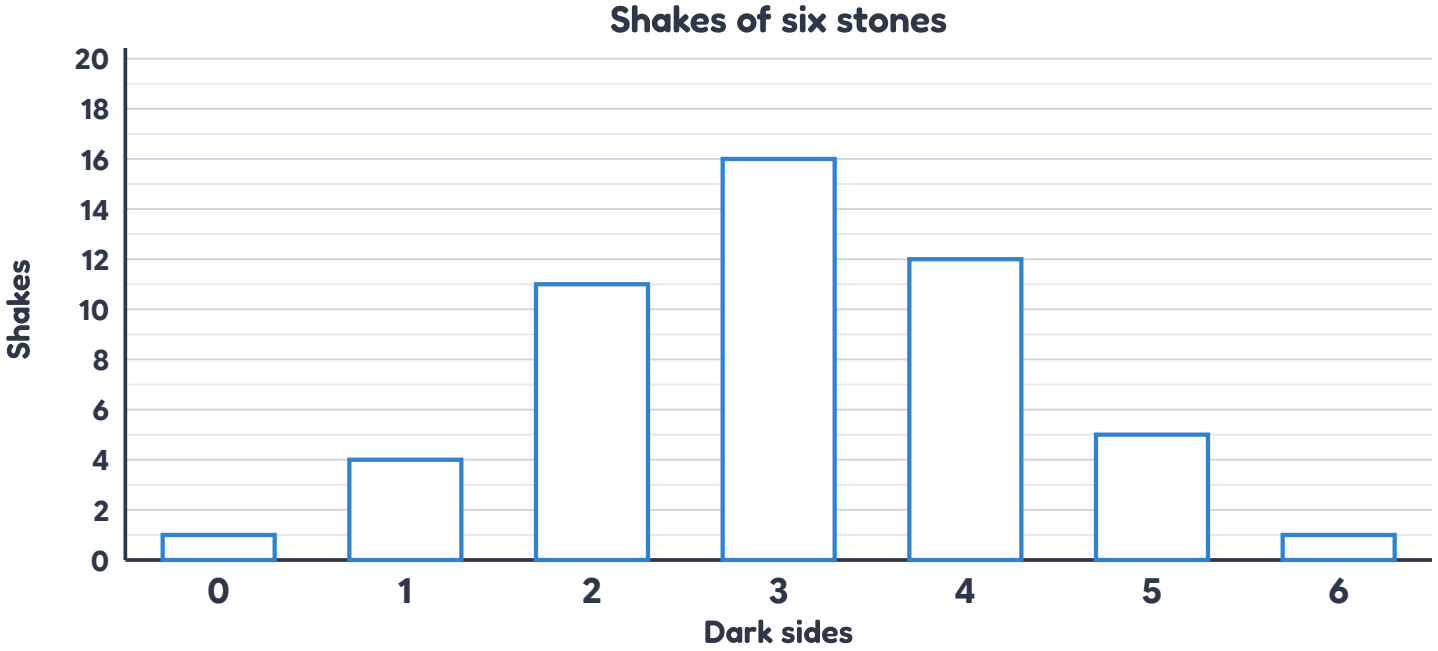


Bowl Game Probability

Draw the bar graph. Then answer the questions.

Another class shook six stones **50** times. The table shows how many shakes landed with each number of dark sides.

Dark sides	0	1	2	3	4	5	6
Shakes	1	4	11	16	12	5	1



1. Which number of dark sides came up most often?

   dark sides: 3

2. How many more shakes had **3** dark sides than **2**?

   16 − 11 = 5

   5 more

3. How many shakes had **4** or more dark sides?

   12 + 5 + 1 = 18

   18 shakes

4. What fraction of the **50** shakes had exactly **3** dark sides?

   16/50 = 8/25

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