

# Statistics & Probability

## Task Cards 7.SP.6

20 Task Cards, Recording Sheet, Answer Sheet

**7.SP.6**

Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability.

**13** Susan rolled a regular six sided number cube 100 times, but never rolled a 1. Is something wrong? Explain.

7.SP.6

**14** When rolling a regular six sided number cube 500 times, how many times can you expect to get the number six?

7.SP.6

**15** During the month of July, Mr. Fred received junk email mail on 15 of those days. What is the relative frequency of Mr. Fred receiving junk mail?

7.SP.6


**16** Kami drove to work 30 times and got stopped by a red light 12 times. What is the relative frequency of stopping at a red light while she is on her way to work?

7.SP.6

**17** Hattie watched 40 movies this year and had popcorn 33 times. What is the relative frequency of Hattie having popcorn?

**18** Use the spinner to answer the question:

If you spin the spinner 500 times how many times do you expect to land on an even number?





Created by:  
**Math in the Midwest**

# 7.SP.6

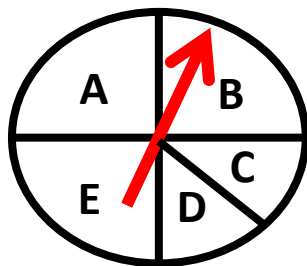


Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability.

1

Use the spinner to answer the question:

How many possible outcomes are there?

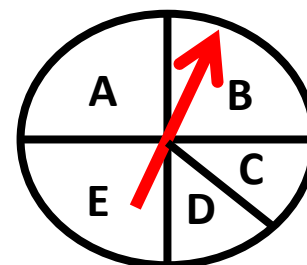


7.SP.6

2

Use the spinner to answer the question:

List the sample space for the experiment.

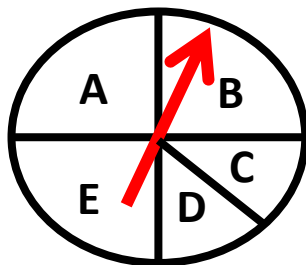


7.SP.6

3

Use the spinner to answer the question:

If you spin the spinner 500 times how many times can you expect it to land on a vowel?

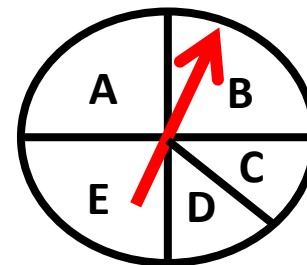


7.SP.6

4

Use the spinner to answer the question:

If you spin the spinner 500 times how many times can you expect it to land on the letter B?

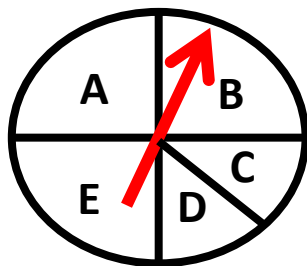


7.SP.6

5

Use the spinner to  
answer the question:

If you spin the  
spinner 200 times  
how many times  
can you expect it  
to land on C?

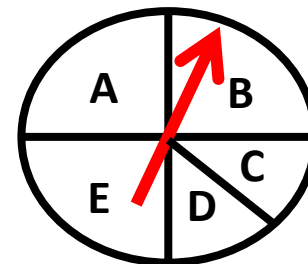


7.SP.6

6

Use the spinner to  
answer the question:

If you spin the  
spinner 600 times  
how many times  
can you expect it  
to land on a  
consonant?

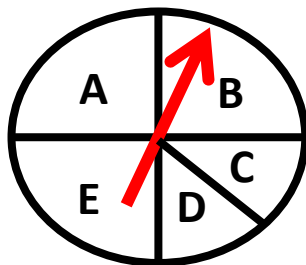


7.SP.6

7

Use the spinner to  
answer the question:

If you spin the  
spinner 400 times  
how many times  
can you expect it  
to land on A?

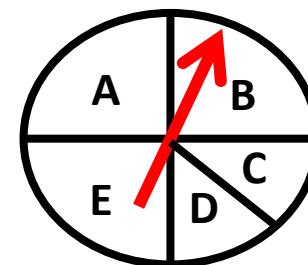


7.SP.6

8

Use the spinner to  
answer the question:

If you spin the  
spinner 400 times  
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to land on B or D?



7.SP.6

**9**

Maggie has a box of 50 balloons for her birthday party. 20 of the balloons are blue, 15 are yellow, and 15 purple. What is the probability that a randomly selected balloon will be blue?

7.SP.6

**10**

Maggie has a box of 50 balloons for her birthday party. 20 of the balloons are blue, 15 are yellow, and 15 purple. What is the probability that a randomly selected balloon will not be pink?

7.SP.6

**11**

When rolling a regular six sided number cube 400 times, how many times can you expect to get an even number?

7.SP.6

**12**

When rolling a regular six sided number cube 400 times, how many times can you expect to get a number greater than one?

7.SP.6

**13**

Susan rolled a regular six sided number cube 100 times, but never rolled a 1. Is something wrong? Explain.

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When rolling a regular six sided number cube 500 times, how many times can you expect to get the number six?

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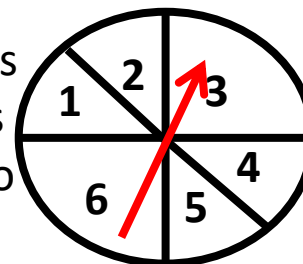
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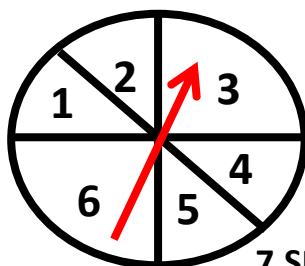


7.SP.6

**19**

Use the spinner to answer the question:

If you spin the spinner 300 times how many times can you expect to land on an odd number?

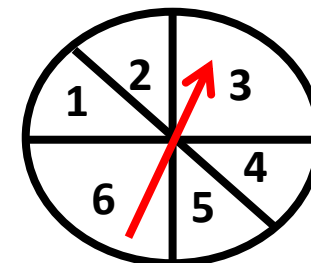


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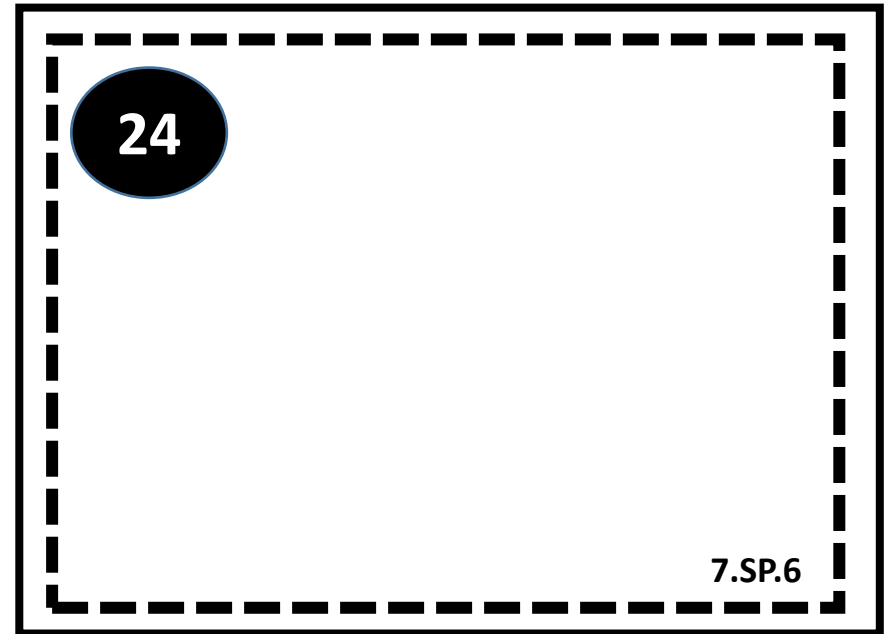
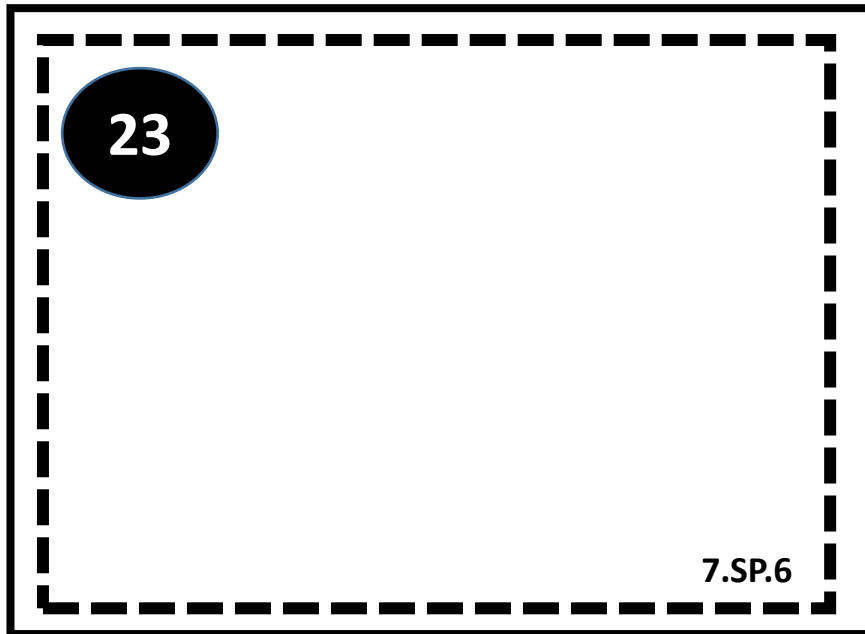
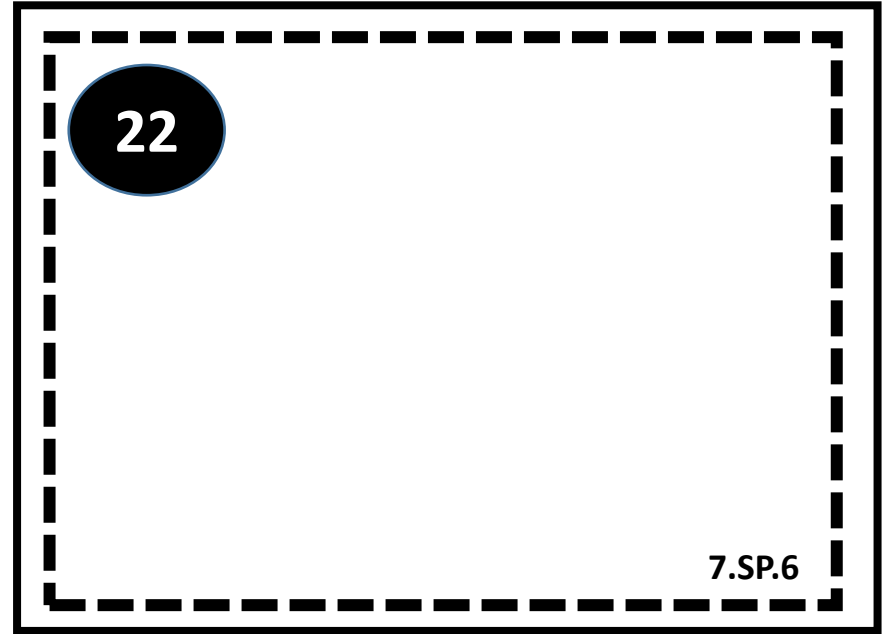
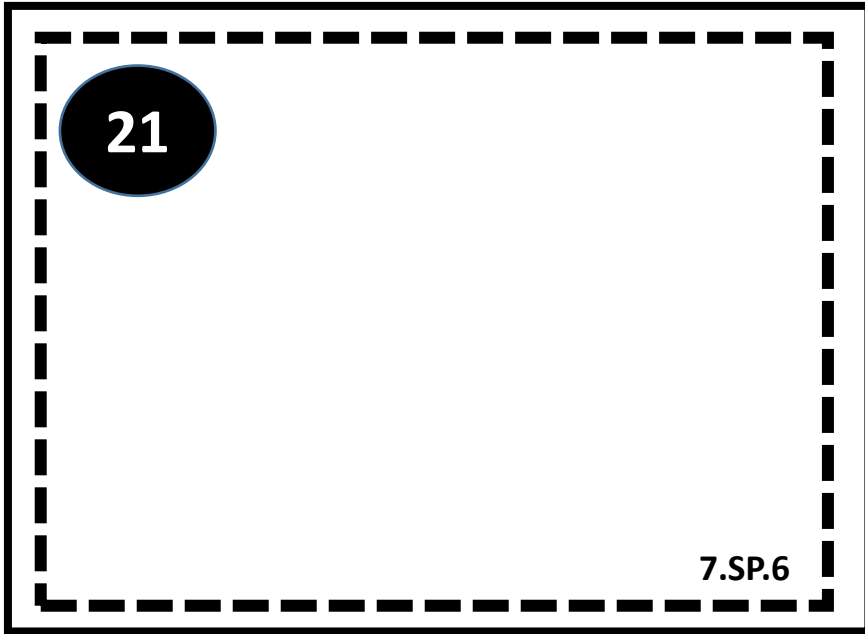
**20**

Use the spinner to answer the question:

If you spin the spinner 200 times how many times can you expect to land on a number greater than 4?



7.SP.6

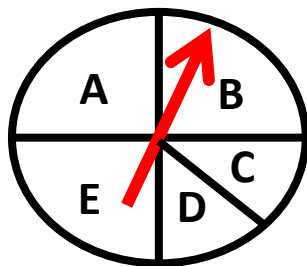




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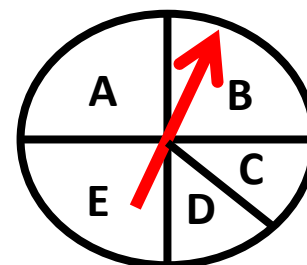


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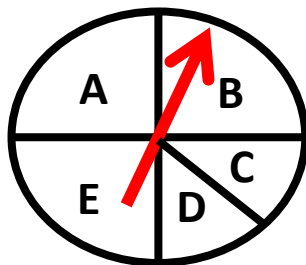


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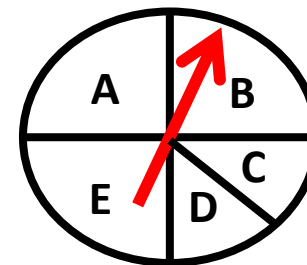


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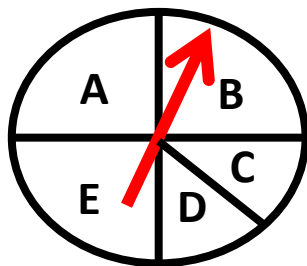


7.SP.6

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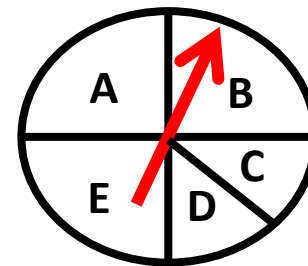


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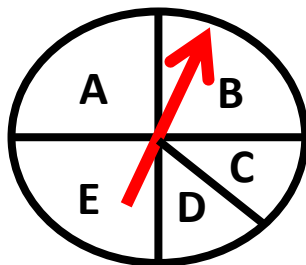


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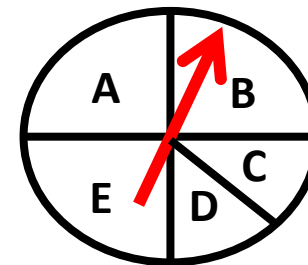


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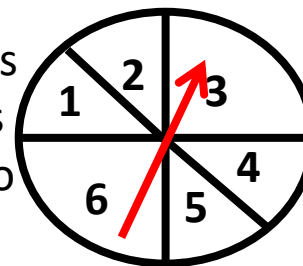
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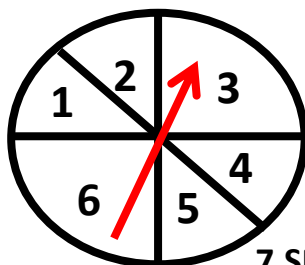


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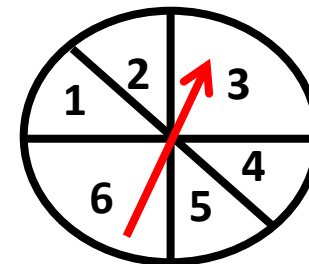


7.SP.6

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7.SP.6

21

7.SP.6

22

7.SP.6

23

7.SP.6

24

7.SP.6

Name \_\_\_\_\_

Hour \_\_\_\_\_

# 7.SP.6 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	8.	9.

Name \_\_\_\_\_

Hour \_\_\_\_\_

10.

11.

12.

13.

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18.

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20.



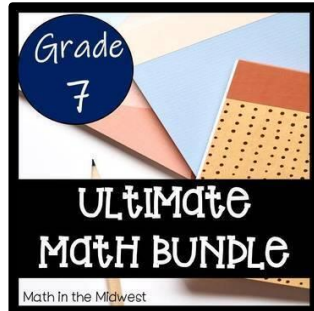
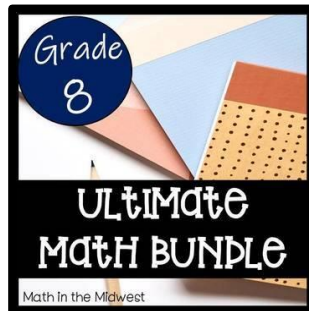
# Answer Key

Number	Answer
1	5 Possible Outcomes
2	{A, B, C, D, E}
3	Roughly 250 times
4	Roughly 125 times
5	Roughly 25 times
6	Roughly 300 times
7	Roughly 100 times
8	Roughly 150 times
9	$\frac{2}{5}$
10	1 or 100%

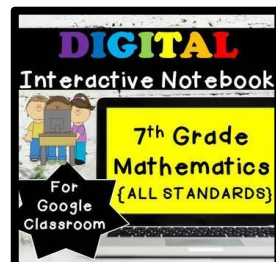
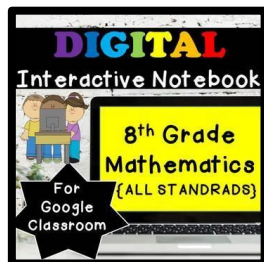
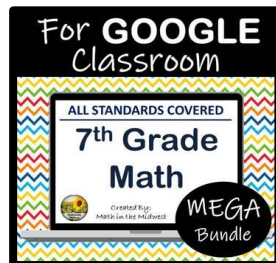
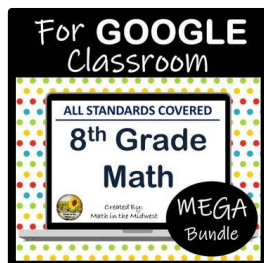
Number	Answer
11	Roughly 200 times
12	Roughly 333 times
13	No we would predict 16 or 17 times, but that is not certain
14	Roughly 83 times
15	$\frac{15}{31} = 0.48$
16	$\frac{12}{30} = 0.4$
17	$\frac{33}{40} = 0.83$
18	Roughly 250 times
19	Roughly 150 times
20	Roughly 75 times

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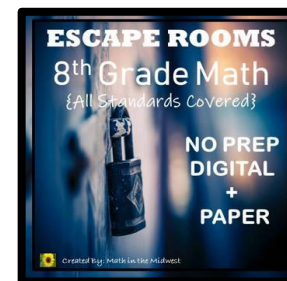
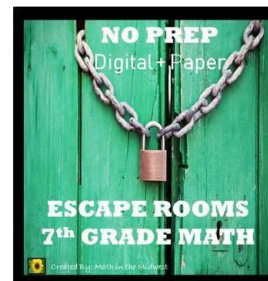


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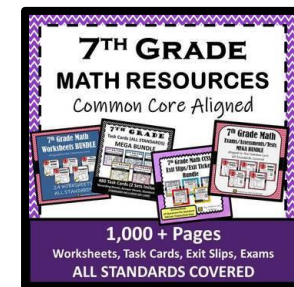
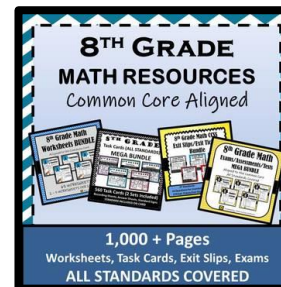


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