

# Statistics & Probability

## Task Cards 7.SP.8

20 Task Cards, Recording Sheet, Answer Sheet

7.SP.8

Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation.

5

Mr. J's class has 8 boys and 11 girls. What is the probability that he will randomly choose a boy first and then a girl?

7.SP.8

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7.SP.8

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You are taking a multiple choice quiz with a total of 4 questions and each question has 3 options. If you guess on every single question. What is the probability that you will get all three questions correct?

7.SP.8

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There are four marbles (yellow, orange, white, blue). If you choose one marble out of the bag and flip a coin. How many total outcomes are possible?

7.SP.8

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Fifty people put their name into a two different drawings (30 males and 20 females). One drawing is for an iPad and the other is for a flat screen TV. What is the

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7.SP.8

20

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Created by:  
Math in the Midwest

# 7.SP.8

Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation.

1

If you roll two number cubes what is the probability of rolling two sixes?

7.SP.8

2

If you roll two number cubes what is the probability of rolling two even numbers?

7.SP.8

3

If you roll two number cubes what is the probability of getting a bigger number on the first number cube than the second number cube?

7.SP.8

4

If you roll two number cubes what is the probability of at least one 4?

7.SP.8

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Jason chose three cards at random from a deck. What is the probability of getting an Ace, 2, and 3 without replacement?

7.SP.8

10

Imagine you roll a regular six sided number cube and spin a spinner divided into equal parts of blue, red, and white. What is the probability for the outcome to be an odd number and the color blue?

7.SP.8

11

Ten people put there name into two different drawings. The first drawing is a trip to Hawaii and the second is a new car. What is the probability that the same person will win both drawings.

7.SP.8

12

Fifty people put there name into a two different drawings (30 males and 20 females). One drawing is for an iPad and the other is for a flat screen TV. What is the probability that a female will win the iPad and a male win the flat screen?

7.SP.8

**13**

There are ten marbles in a bag (4 blue, 3 orange, 2 red). What is the probability that you would pull out an orange marble (keep it) and then pull out a red marble?

7.SP.8

**14**

There are ten marbles in a bag (4 blue, 3 orange, 2 red). What is the probability that you would pull out an orange marble (put it back) and then pull out a red marble?

7.SP.8

**15**

You are playing a board game with your friends and if you roll doubles you roll again. What is the probability of you rolling doubles two times in a row?

7.SP.8

**16**

You are playing a board game with your friends and if you roll doubles three times in a row you lose your turn. What is the probability of rolling three doubles in a row?

7.SP.8

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7.SP.8

**19**

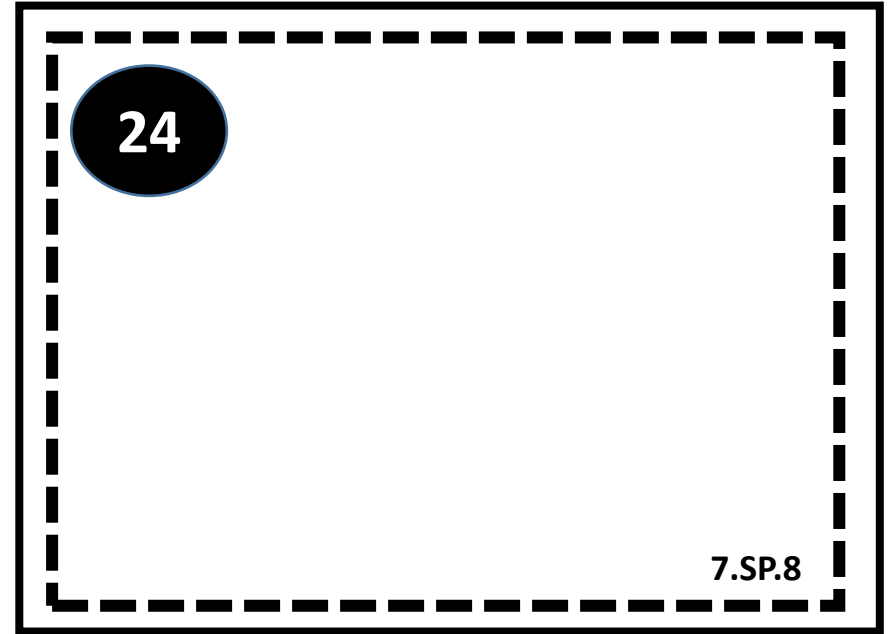
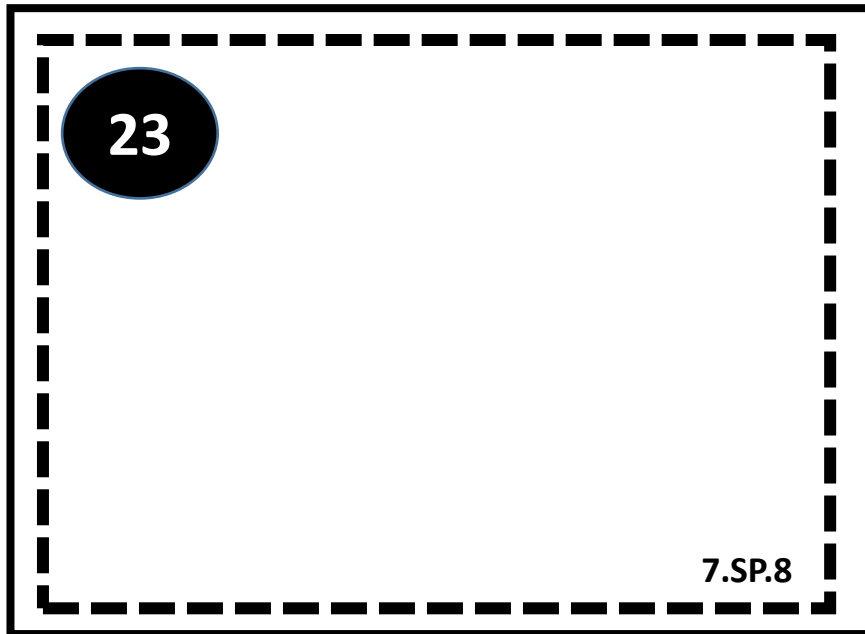
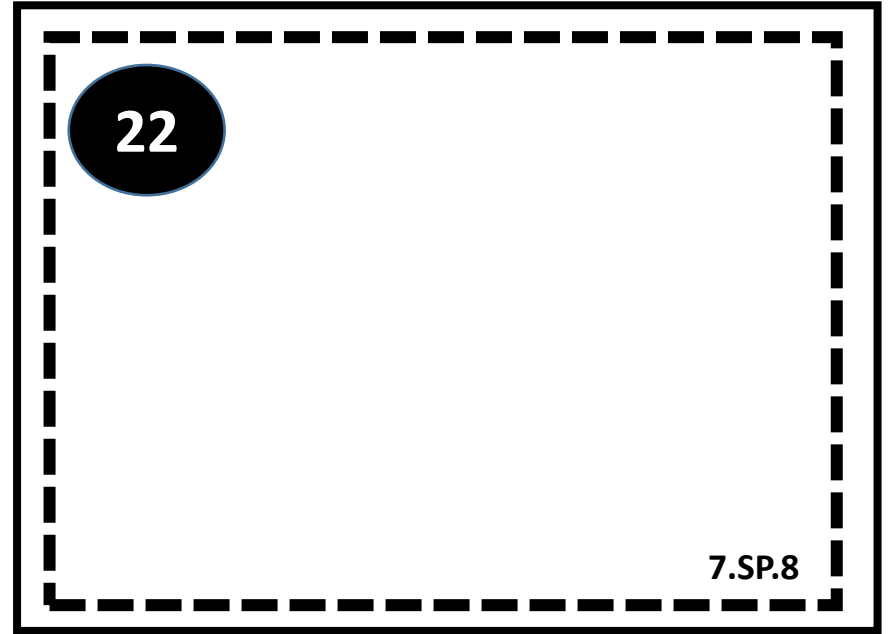
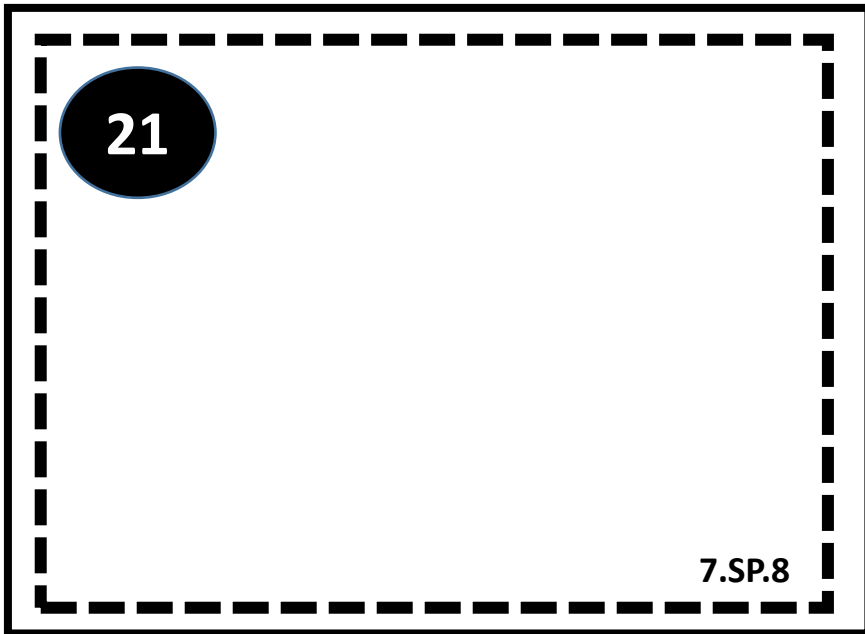
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7.SP.8

**20**

Sammy flips a coin five times. What is the probability of Sammy getting a tails every time?

7.SP.8





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7.SP.8

22

7.SP.8

23

7.SP.8

24

7.SP.8

Name \_\_\_\_\_

Hour \_\_\_\_\_

# 7.SP.8 Recording Sheet

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

Name \_\_\_\_\_

Hour \_\_\_\_\_

10.

11.

12.

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18.

19.

20.



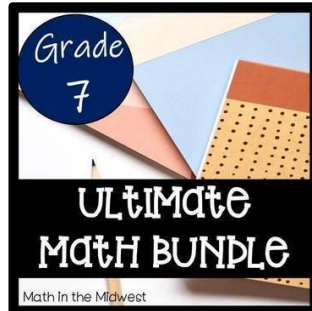
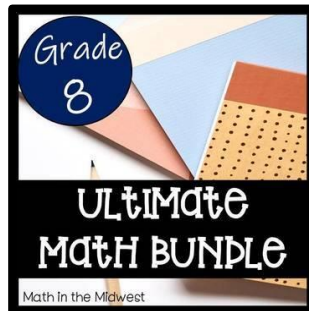
# Answer Key

Number	Answer
1	$\frac{1}{36}$ or 2.8%
2	$\frac{1}{4}$ or 25%
3	$\frac{15}{36}$ or 41.6%
4	$\frac{11}{36}$ or 30.6%
5	$\frac{88}{342}$ or 25.7%
6	$\frac{56}{342}$ or 16.4%
7	$\frac{1}{81}$ or 1.2%
8	8 possibilities
9	$\frac{64}{132,600}$
10	$\frac{1}{12}$ or 8.3%

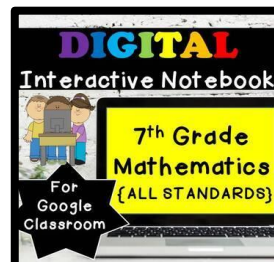
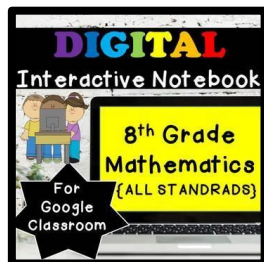
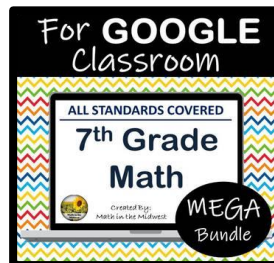
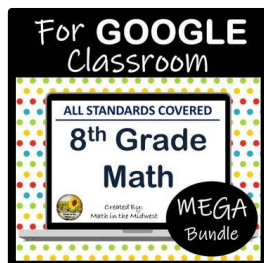
Number	Answer
11	$\frac{1}{100}$ or 1%
12	24%
13	$\frac{1}{15}$ or 6.6%
14	$\frac{3}{50}$ or 6%
15	$\frac{1}{36}$ or 2.8%
16	$\frac{1}{216}$ or 0.5%
17	16%
18	36%
19	$\frac{1}{2500}$
20	$\frac{1}{32}$ or 3.1%

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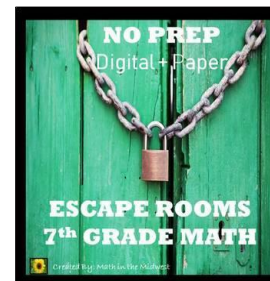
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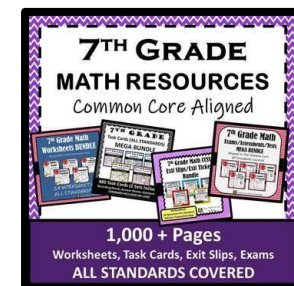
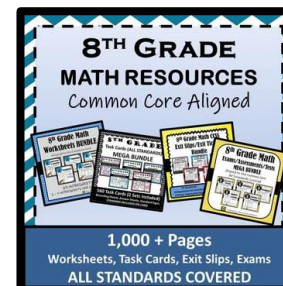
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