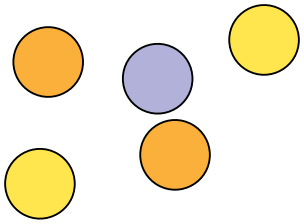
Probability of Independent and Dependent Events

Name:

#1

You pick a marble at random. Without putting the first marble back, you pick a second marble at random. What is $\mathrm{P}(\text{yellow, blue})$? Simplify your answer and write it as a fraction or whole number.

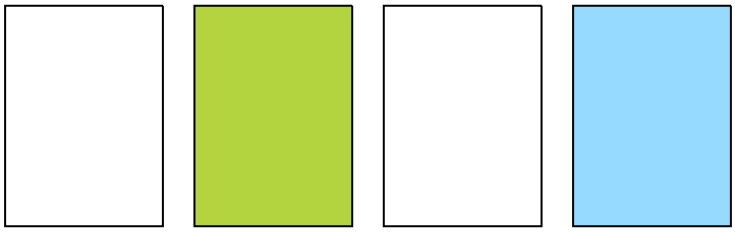


- 2
- 0
- 3
- 1

Show your work

#2

You pick a card at random. Without putting the first card back, you pick a second card at random. What is $\mathrm{P}(\text{white, yellow})$? Simplify your answer and write it as a fraction or whole number.

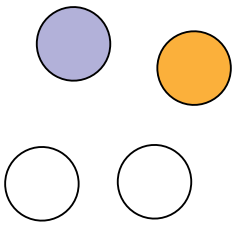


$$\mathrm{P}(\text{white, yellow}) = \square$$

Show your work

#3

You pick a marble at random. Without putting the first marble back, you pick a second marble at random. What is $\mathrm{P}(\text{purple, brown})$? Simplify your answer and write it as a fraction or whole number.

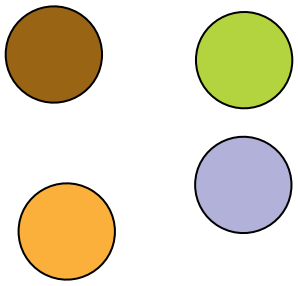


- 2
- 0
- 1
- 3

Show your work

#4

You pick a marble at random, put it back, and then pick another marble at random. What is $\mathrm{P}(\text{brown, purple})$? Simplify your answer and write it as a fraction or whole number.

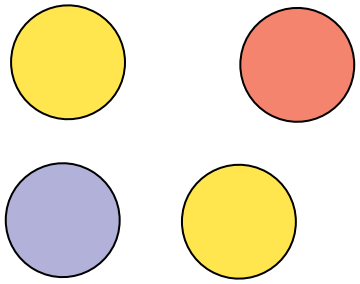


$\mathrm{P}(\text{brown, purple}) =$ ☐

Show your work

#5

You pick a marble at random. Without putting the first marble back, you pick a second marble at random. What is $\mathrm{P}(\text{yellow, red})$? Simplify your answer and write it as a fraction or whole number.

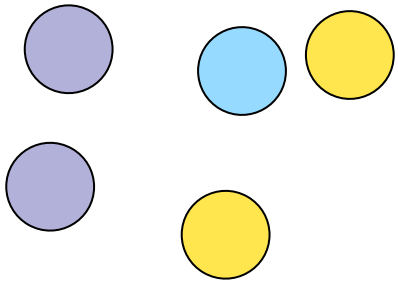


$\mathrm{P}(\text{yellow, red}) =$ ☐

Show your work

#6

You pick a marble at random, put it back, and then pick another marble at random. What is $\mathrm{P}(\text{purple, orange})$? Simplify your answer and write it as a fraction or whole number.

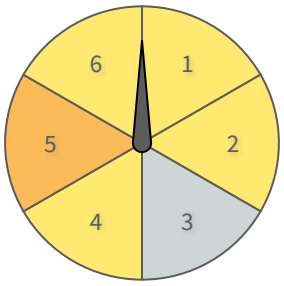


$\mathrm{P}(\text{purple, orange}) =$ ☐

Show your work

#7

You spin the spinner wheel twice. What is $\mathrm{P}(\text{grey, yellow})$? Simplify your answer and write it as a fraction or whole number.

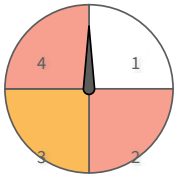


$\mathrm{P}(\text{grey, yellow}) =$ ☐

Show your work

#8

You spin the spinner wheel twice. What is $\mathrm{P}(\text{white, red})$? Simplify your answer and write it as a fraction or whole number.

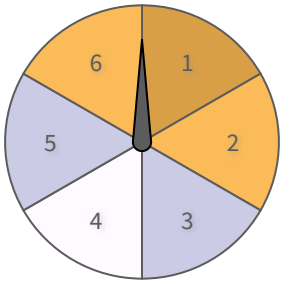


- ○ $\frac{1}{7}$
- ○ $\frac{1}{3}$
- ○ $\frac{1}{8}$
- ○ $\frac{7}{9}$

Show your work

#9

You spin the spinner wheel twice. What is $\mathrm{P}(\text{odd, less than } 2)$? Simplify your answer and write it as a fraction or whole number.

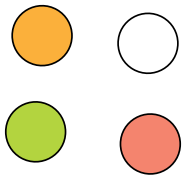


$\mathrm{P}(\text{odd, less than } 2) =$ ☐

Show your work

#10

You pick a marble at random, put it back, and then pick another marble at random. What is $\mathrm{P}(\text{white, green})$? Simplify your answer and write it as a fraction or whole number.



- $\frac{1}{16}$
- $\frac{1}{5}$
- $\frac{4}{5}$
- $\frac{1}{3}$

Show your work

#11

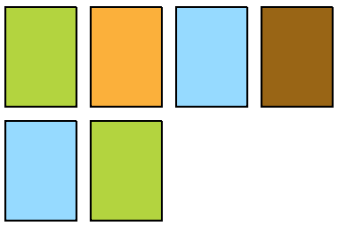
You roll a 6-sided die twice. What is $\mathrm{P}(\text{even, even})$? Simplify your answer and write it as a fraction or whole number.

$$\mathrm{P}(\text{even, even}) = \square$$

Show your work

#12

You pick a card at random. Without putting the first card back, you pick a second card at random. What is $\mathrm{P}(\text{brown, white})$? Simplify your answer and write it as a fraction or whole number.



- 1
- 3
- 0
- 2

Show your work

Question	Answer
#1	0
#2	0
#3	0
#4	1/16
#5	1/6
#6	0
#7	1/9
#8	1/8
#9	1/12
#10	1/16
#11	1/4
#12	0