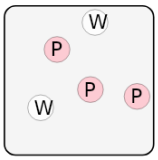
Name

Calculate the probability of compound events

1

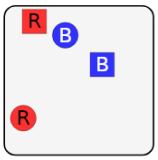
What is the chance of drawing a pink circle at random from this bag?



A 0.7	B 0.3	C 0.1
D 0.667	E 1	F 0.6

2

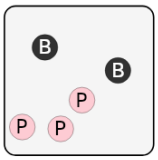
What is the chance of drawing a circle at random from this bag?



A 33.3%	B 100%	C 37.5%
D 60%	E 50%	F 83.3%

3

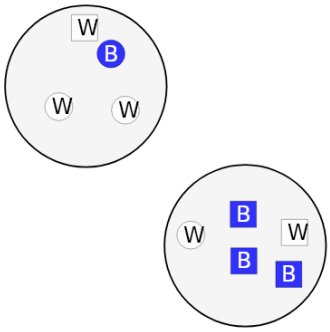
What is the chance of drawing a pink circle at random from this bag?



A 33.3%	B 25%	C 100%
D 20%	E 60%	F 37.5%

4

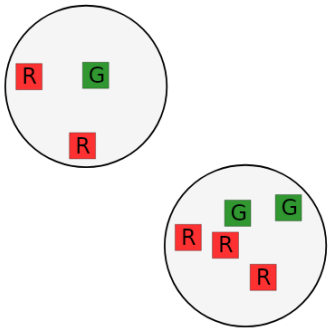
What is the chance of drawing a circle at random from both bags?



A $\frac{1}{3}$	B $\frac{3}{5}$
C $\frac{5}{8}$	D $\frac{3}{20}$
E $\frac{4}{5}$	F $\frac{2}{2}$

5

What is the chance of drawing a green shape at random from both bags?



A $\frac{5}{8}$	B $\frac{3}{3}$
C $\frac{2}{15}$	D $\frac{2}{3}$
E $\frac{1}{2}$	F $\frac{2}{10}$

6

A spinner with three equal-sized sections coloured red, green, and blue is spun twice. Event A: There is exactly one green. Event B: The second spin lands on red.

A $P(A \cap B) = 0$
B $P(A \cap B) = P(A) \times P(B)$
C Neither of these

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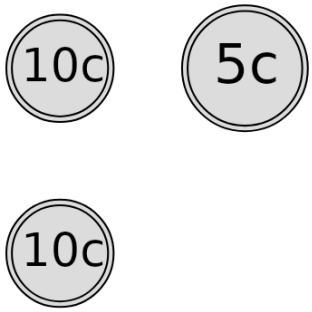
7

What is the equation for the chance of flipping all heads or all tails on these coins?



A $1-\frac{1}{2}\cdot\frac{1}{2}\cdot\frac{1}{2}$

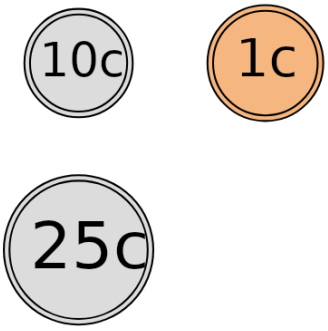
B $\frac{1}{2}\cdot\frac{1}{2}$

C $1-\frac{1}{2}\cdot\frac{1}{2}$

D $\frac{1}{2}\cdot\frac{1}{2}\cdot\frac{1}{2}$

8

What is the equation for the chance of flipping tails on all these coins?



A $\frac{1}{2}\cdot\frac{1}{2}\cdot\frac{1}{2}$

B $1-\frac{1}{2}\cdot\frac{1}{2}\cdot\frac{1}{2}$

C $1-\frac{1}{2}\cdot\frac{1}{2}$

D $\frac{1}{2}\cdot\frac{1}{2}$

9

Event A and event B are mutually exclusive.

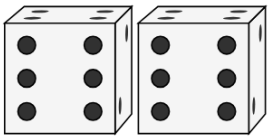
A $P(A \cup B) = P(A) + P(B) - P(A \cap B)$ (where $P(A \cap B) > 0$)

B Neither of these

C $P(A \cup B) = P(A) + P(B)$

10

What formula would give you the chance of rolling a 6 twice in a row?



A $1 - P(6_1)$

B $P(6_1) \cdot P(6_2)$

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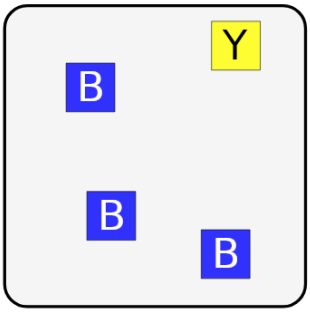
11

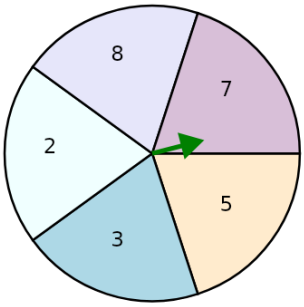
What is the equation for the chance of drawing two blue shapes in a row at random from this bag?



A $\frac{3}{4} \cdot \frac{2}{3}$	B $\frac{4}{5} \cdot \frac{5}{8}$
C $\frac{1}{3} \cdot \frac{2}{4}$	D $\frac{4}{5} \cdot \frac{5}{10}$
E $\frac{3}{3} \cdot \frac{3}{6}$	F $\frac{1}{5} \cdot \frac{3}{10}$

12

Calculate the probability of spinning 3 twice in a row. Show as a fraction

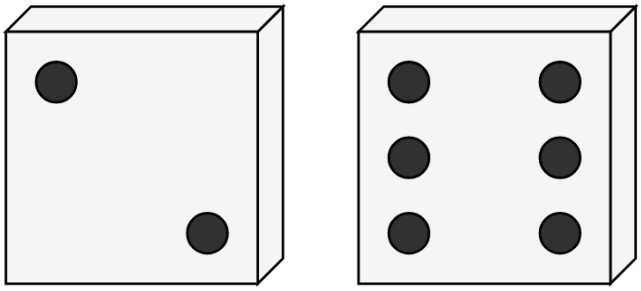


P(3 twice)

A $\frac{5}{25}$	B $\frac{1}{25}$
C $\frac{4}{24}$	D $\frac{3}{25}$
E $\frac{1}{24}$	

13

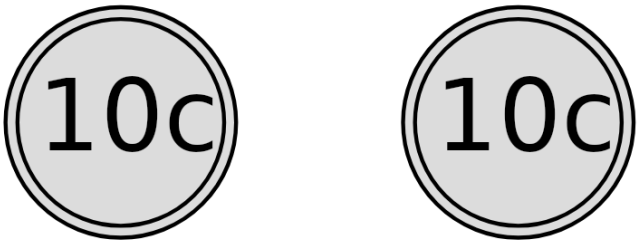
What is the equation for the chance of rolling at least one 5 on these dice?



A $\frac{1}{6} \cdot \frac{1}{6}$	B $1 - \frac{1}{6} \cdot \frac{1}{6}$
C $\frac{1}{6}$	D $\frac{1}{6} + \frac{1}{6} - \frac{1}{6} \cdot \frac{1}{6}$

14

What is the chance of flipping tails on both these coins?



A $\frac{3}{8}$	B $\frac{3}{9}$
C $\frac{2}{4}$	D $\frac{3}{9}$
E $\frac{1}{7}$	F $\frac{1}{4}$