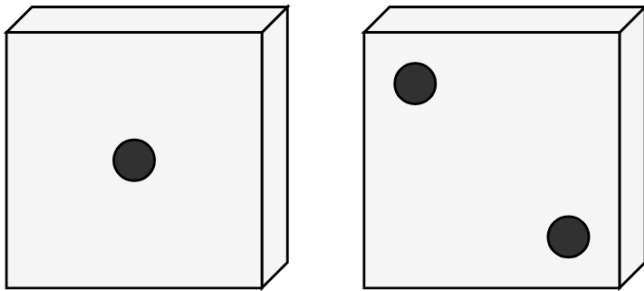




Model repeated trials with binomial distributions



- 1 What is the equation for the chance of rolling at least one 2 on these dice?



A

$$\frac{1}{6}$$

B

$$\frac{1}{6} + \frac{1}{6} - \frac{1}{6} \cdot \frac{1}{6}$$

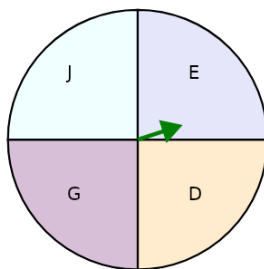
C

$$1 - \frac{1}{6} \cdot \frac{1}{6}$$

D

$$\frac{1}{6} \cdot \frac{1}{6}$$

- 2 Calculate the probability of spinning E at least once, given two spins. Show as a fraction



P(E in 2 spins)

A $\frac{10}{15}$

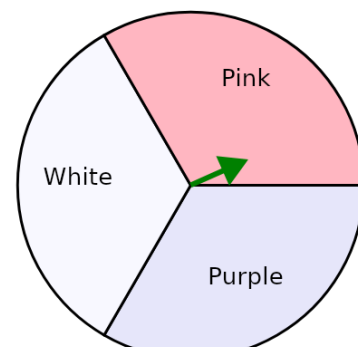
B $\frac{4}{15}$

C $\frac{7}{14}$

D $\frac{7}{16}$

E $\frac{3}{15}$

- 3 Calculate the probability of spinning Pink at least once, given two spins. Show as a decimal



P(Pink in 2 spins)

A 0.56

B 3

C 0.63

D 0.62

E 0.58

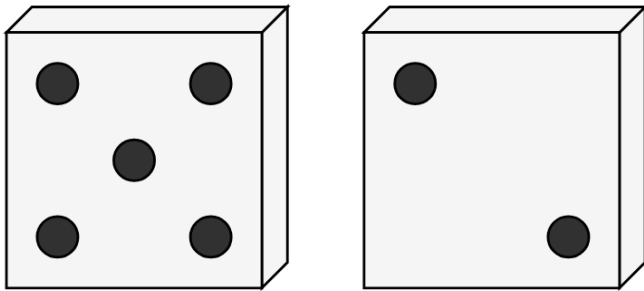
F 0.54



Model repeated trials with binomial distributions



- 4 What is the equation for the chance of rolling at least one 6 on these dice?



A

$$\frac{1}{6} \cdot \frac{1}{6}$$

B

$$\frac{1}{6} + \frac{1}{6} - \frac{1}{6} \cdot \frac{1}{6}$$

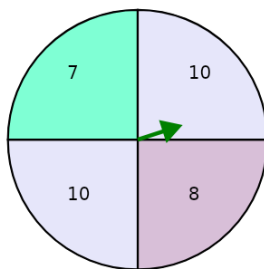
C

$$\frac{1}{6}$$

D

$$1 - \frac{1}{6} \cdot \frac{1}{6}$$

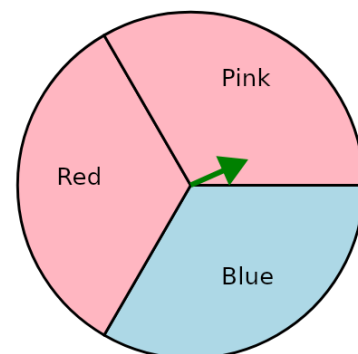
- 5 Calculate the probability of spinning 8 at least once, given two spins. Show as a fraction



P(8 in 2 spins)

A	$\frac{5}{17}$	B	$\frac{7}{16}$
C	$\frac{4}{16}$	D	$\frac{2}{18}$
E	$\frac{5}{15}$		

- 6 Calculate the probability of spinning Pink at least once, given two spins. Show as a decimal



P(Pink in 2 spins)

A	0.63	B	4	C	0.45
D	0.56	E	0.89	F	1