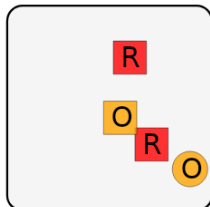




Represent sample spaces using tree diagrams

1

List all the possible outcomes.

A orange circle,
orange squareB red square,
orange circle,
orange squareC red square,
orange circleD red square,
orange square**2**

You are putting together a meal. You choose one main (burger, pasta) and one dessert (ice cream, cheesecake, sundae).

A

8

B

5

C

7

D

6

3

You are putting together an outfit. You choose one shirt (red, blue, green, white) and one pants (blue, green, white). The pants must be white or blue.

A Multiply the choices for every option and ignore the restriction.

B Add together the number of choices for every option.

C Use 2 as the number of choices for that option, then multiply the choices across all options.

D Subtract the number of options from the total number of choices.

4

You are putting together a pizza. You choose one size (small, medium), one crust (flat, thick, stuffed), and one topping (pepperoni, mushroom, sausage, vegetables). The crust cannot be thick.

A

 $3 \times 2 \times 4$

B

 $2 + 2 + 4$

C

 $2 \times 2 \times 4$

D

 $2 \times 2 \times 5$ **5**

A fair six-sided die is rolled and a spinner with red, green, and blue sections is spun.

A

24

B

9

C

18

D

12

6

A fair coin is flipped and a spinner with red, green, and blue sections is spun. A favourable outcome is one where the coin shows tails.

A

(T, R)

B

(T, R) (T, G) (T, B)

7

A spinner with three equal-sized sections coloured red, green, and blue is spun twice. A favourable outcome is one where there is exactly one red.

A

4

B

5

C

9

D

3

8

A spinner with three equal-sized sections coloured red, green, and blue is spun twice.

A

RR GR BR

B

RR RG RB GR GG
GB BR BG BB

**Represent sample spaces using tree diagrams****9**

Four fair coins are flipped.

A

HHHH	HHHT	HHTH	HHTT	HTHH
HTHT	HTTH	HTTT	THHH	THHT
THTH	THTT	TTHH	TTHT	TTTH
TTTT				

B

HHHH	HHHT	HTHH	HTHT	THHH
THHT	TTHH	TTHT		

10

A fair six-sided die is rolled and a spinner with red, green, and blue sections is spun.

A

(1, R)	(1, G)	(1, B)	(2, R)	(2, G)
(2, B)	(3, R)	(3, G)	(3, B)	(4, R)
(4, G)	(4, B)	(5, R)	(5, G)	(5, B)
(6, R)	(6, G)	(6, B)		

B

(1, R)	(1, G)	(1, B)
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