Sample Spaces: Lists, Tables & Tree Diagrams · 1

You flip three coins. There are 8 outcomes (HHH, HHT, …). What is the probability of getting exactly 2 heads?

Sample Spaces: Lists, Tables & Tree Diagrams · 2

You choose one of 6 shirts and one of 2 pairs of pants and one of 2 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 3

You choose one of 3 shirts and one of 4 pairs of pants and one of 3 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 4

You flip a coin and roll a number cube. What is the probability of getting heads and an even number?

Sample Spaces: Lists, Tables & Tree Diagrams · 5

You flip a coin and roll a number cube. What is the probability of getting heads and a 6?

Sample Spaces: Lists, Tables & Tree Diagrams · 6

You choose one of 4 shirts and one of 4 pairs of pants and one of 2 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 7

You choose one of 6 shirts and one of 5 pairs of pants and one of 3 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 8

You choose one of 5 shirts and one of 3 pairs of pants and one of 3 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 2

**ANSWER**

**24**

Sample Spaces: Lists, Tables & Tree Diagrams · 1

**ANSWER**

$$\frac{3}{8}$$

Sample Spaces: Lists, Tables & Tree Diagrams · 4

**ANSWER**

$$\frac{1}{4}$$

Sample Spaces: Lists, Tables & Tree Diagrams · 3

**ANSWER**

**36**

Sample Spaces: Lists, Tables & Tree Diagrams · 6

**ANSWER**

**32**

Sample Spaces: Lists, Tables & Tree Diagrams · 5

**ANSWER**

$$\frac{1}{12}$$

Sample Spaces: Lists, Tables & Tree Diagrams · 8

**ANSWER**

**45**

Sample Spaces: Lists, Tables & Tree Diagrams · 7

**ANSWER**

**90**

Sample Spaces: Lists, Tables & Tree Diagrams · 9

You flip three coins. There are 8 outcomes (HHH, HHT, …). What is the probability of getting exactly 1 head?

Sample Spaces: Lists, Tables & Tree Diagrams · 10

You flip a coin and roll a number cube. What is the probability of getting heads and an odd number?

Sample Spaces: Lists, Tables & Tree Diagrams · 11

You flip three coins. There are 8 outcomes (HHH, HHT, …). What is the probability of getting at least 1 tail?

Sample Spaces: Lists, Tables & Tree Diagrams · 12

You choose one of 3 shirts and one of 2 pairs of pants and one of 2 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 13

You flip a coin and roll a number cube. What is the probability of getting tails and a number greater than 4?

Sample Spaces: Lists, Tables & Tree Diagrams · 14

You choose one of 3 shirts and one of 4 pairs of pants and one of 2 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 15

You flip three coins. There are 8 outcomes (HHH, HHT, …). What is the probability of getting 3 heads?

Sample Spaces: Lists, Tables & Tree Diagrams · 16

You flip a coin and roll a number cube. What is the probability of getting tails and a number less than 5?

Sample Spaces: Lists, Tables & Tree Diagrams · 10

**ANSWER**

$\frac{1}{4}$

Sample Spaces: Lists, Tables & Tree Diagrams · 9

**ANSWER**

$\frac{3}{8}$

Sample Spaces: Lists, Tables & Tree Diagrams · 12

**ANSWER**

**12**

Sample Spaces: Lists, Tables & Tree Diagrams · 11

**ANSWER**

$\frac{7}{8}$

Sample Spaces: Lists, Tables & Tree Diagrams · 14

**ANSWER**

**24**

Sample Spaces: Lists, Tables & Tree Diagrams · 13

**ANSWER**

$\frac{1}{6}$

Sample Spaces: Lists, Tables & Tree Diagrams · 16

**ANSWER**

$\frac{1}{3}$

Sample Spaces: Lists, Tables & Tree Diagrams · 15

**ANSWER**

$\frac{1}{8}$

Sample Spaces: Lists, Tables & Tree Diagrams · 17

You choose one of 6 shirts and one of 5 pairs of pants and one of 2 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 18

You choose one of 3 shirts and one of 5 pairs of pants and one of 2 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 19

You choose one of 3 shirts and one of 5 pairs of pants and one of 3 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 20

You flip three coins. There are 8 outcomes (HHH, HHT, …). What is the probability of getting no heads?

Sample Spaces: Lists, Tables & Tree Diagrams · 21

You choose one of 5 shirts and one of 4 pairs of pants and one of 2 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 22

You choose one of 4 shirts and one of 5 pairs of pants and one of 3 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 23

You choose one of 4 shirts and one of 2 pairs of pants and one of 2 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 24

You choose one of 5 shirts and one of 2 pairs of pants and one of 3 hats. How many different outfits are possible?

Sample Spaces: Lists, Tables & Tree Diagrams · 18

**ANSWER**

**30**

Sample Spaces: Lists, Tables & Tree Diagrams · 17

**ANSWER**

**60**

Sample Spaces: Lists, Tables & Tree Diagrams · 20

**ANSWER**

$$\frac{1}{8}$$

Sample Spaces: Lists, Tables & Tree Diagrams · 19

**ANSWER**

**45**

Sample Spaces: Lists, Tables & Tree Diagrams · 22

**ANSWER**

**60**

Sample Spaces: Lists, Tables & Tree Diagrams · 21

**ANSWER**

**40**

Sample Spaces: Lists, Tables & Tree Diagrams · 24

**ANSWER**

**30**

Sample Spaces: Lists, Tables & Tree Diagrams · 23

**ANSWER**

**16**