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QUESTION 1



Salma is using a 3-digit code to secure her tablet.

She chooses digits from 0 to 9.

There are possible 3-digit codes.



The probability that Salma's code is 301 is about %

QUESTION 2



Hamda is using a 2-digit password to secure her personal folder on the computer.

She uses numbers 0 to 9 to select her password.

In total, Hamda can select different 2-digit passwords.



The probability that Hamda is using 04 as her password is %

QUESTION 3

A coin is flipped 3 times. What is the probability of landing 2 heads and 1 tail in this order?

 $\frac{1}{8}$ ✓ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{6}$ **QUESTION 4**

Fatema is making an arrangement using one balloon, one flower and one chocolate bar from the available options below.

Fatema can make ✓ different arrangements.

The probability that Fatema will choose a pink balloon, a rose, and a white chocolate bar is ✓ %

| Balloon | Flower | Chocolate bar |
|---------|--------|-----------------------------|
| Red | | Dark chocolate |
| White | | Milk chocolate |
| Pink | Rose | Chocolate with strawberries |
| Blue | Tulip | Chocolate with nuts |
| Green | | White chocolate |

Khalifa can make a screen name for his video game character by choosing a name, then a number, then a symbol from the available choices below.

Khalifa has 48 choices for the screen name.

The probability that Khalifa chooses Strong11\$ is $\frac{1}{48}$.

| Name | Number | Symbol |
|--------|--------|--------|
| Hero | 11 | \$ |
| Smart | 12 | ! |
| Strong | 13 | @ |
| Fast | 14 | |

QUESTION 6

1

Ali can make a screen name for his video game character by choosing a name, then a number, then a symbol from the available choices below.

In total, Ali has 60 choices for the screen name.

The probability that Ali chooses Hero12@ is $\frac{1}{60}$.

| Name | Number | Symbol |
|--------|--------|--------|
| Hero | 11 | \$ |
| Smart | 12 | ! |
| Strong | 13 | @ |
| Fast | 14 | |
| King | | |

QUESTION 7



You flip 3 coins. What is the probability of landing 3 heads?

$\frac{1}{8}$ ✓

$\frac{1}{2}$

$\frac{1}{4}$

$\frac{1}{6}$

QUESTION 8



Mustafa is planning for a trip.

He wants to choose a hotel, and a car to rent.

A website provides 10 different hotel choices and 2 different cars.

Therefore, Mustafa has ✓ different hotel and car options to choose from, if he selects one hotel, and one car.

QUESTION 9

Abdulla has 5 shirts and 5 ties as shown below.

He can make shirt and tie outfits if he wants to select one shirt and one tie.

The probability that Abdulla chooses a white shirt and a gray tie is .

| Shirt | Tie |
|-------|-------|
| Black | Red |
| White | Blue |
| Red | Brown |
| Green | Gray |
| Blue | navy |

QUESTION 10

In total, there are possible outcomes for flipping a coin, and rolling a number cube.

The probability of flipping a heads, and rolling a 6 is .

QUESTION 11

QUESTION 11

1

The given coin is flipped, and the given spinner is spun.

Find the total number of possible outcomes, when the coin is flipped and the spinner is spun?

 3 5 2 6 ✓**QUESTION 12**

1

A coin is flipped and a number cube is rolled.

In total, there are possible outcomes.

The probability of landing tails and rolling a 3 is .

QUESTION 13

1

The probability of obtaining 3 tails and one head in this order, when flipping 4 coins is .

QUESTION 13

The probability of obtaining 3 tails and one head in this order, when flipping 4 coins is ✓ .

-
-
-

QUESTION 14

A number cube is rolled 3 times.

In total, there are ✓ possible outcomes.

The probability of rolling a 6 three times is ✓ .

Fatema is making an arrangement using one balloon, one flower and one chocolate bar from the available options below.

Fatema can make different arrangements.

The probability that Fatema will choose a red balloon, a rose, and a dark chocolate bar is %

| Balloon | Flower | Chocolate bar |
|--------------|---------------|---|
| Red White | Rose Tulip | Dark chocolate Milk chocolate Chocolate with strawberries Chocolate with nuts White chocolate |

QUESTION 16

Khalifa is shopping for a new smartphone. He has 3 decisions to make about his new phone - the quality, color and data storage capacity. The choices are listed.

Quality: new or used

Color: black, white, silver, pink, or navy

Data storage capacity: 64 GB, 128 GB, 256 GB, or 512 GB

In total, Khalifa has different phone options to choose from.

The probability of choosing a new, navy phone with 64 GB is .

A pizza restaurant offers 2 types of dough and 5 types of dipping sauce.
You choose one type of dough, and one dipping sauce.

With these choices, there are different pizza choices that could be made.

The probability of choosing a thin crust dough, and garlic sauce is .

| Dough | Sauce |
|------------|------------|
| Thin crust | Garlic |
| Normal | Tomato |
| | Basil |
| | Mustard |
| | Mayonnaise |

QUESTION 18

When you roll 2 number cubes, there are possible outcomes.

The probability of rolling a 6, followed by another 6 is .



QUESTION 19

Hani has 8 shirts and 5 ties as listed below.
Hani will choose one shirt and one tie.

In total, he has possible shirt and tie choices, given Hani will choose one shirt and one tie.

The probability that Hani chooses a white shirt and a tie is .

| Shirt | Tie |
|--------|-------|
| Black | |
| White | Blue |
| Red | Gray |
| Brown | Brown |
| Silver | Red |
| Green | Green |
| Navy | |
| Blue | |

QUESTION 20

A pizza restaurant offers 2 types of dough, and 3 types of pizza sauce.
You can choose a type of dough, and a sauce to make your pizza.

With these choices, there are different types of pizza options.

QUESTION 20

A pizza restaurant offers 2 types of dough, and 3 types of pizza sauce. You can choose a type of dough, and a sauce to make your pizza.

With these choices, there are different types of pizza options.

The probability of choosing a pizza with tomato sauce is .

| Dough | Sauce |
|------------|--------|
| Thin crust | Garlic |
| Normal | Tomato |
| | Basil |

QUESTION 21

There are possible outcomes when flipping 2 coins, and rolling a number cube.

QUESTION 22

When you roll 2 number cubes, there are possible outcomes.

QUESTION 22

When you roll 2 number cubes, there are possible outcomes.

The probability of rolling a 3 followed by another 3 is .

QUESTION 23

Moza has 3 pairs of pants, 2 shirts and 2 bags.
She will select a pair of pants, a shirt and a bag.

So, Moza has possible choices when choosing a pair of pants, a shirt, and a bag.

QUESTION 24

Sara has 7 dresses and 4 sunglasses as shown below.
She wants to choose a dress and a pair of sunglasses for her outfit.

In total, Sara has different dresses, and sunglasses outfits to choose from.

The probability that Sara chooses a black dress and black sunglasses is .

Sara has 7 dresses and 4 sunglasses as shown below.

She wants to choose a dress and a pair of sunglasses for her outfit.

In total, Sara has different dresses, and sunglasses outfits to choose from.

The probability that Sara chooses a black dress and black sunglasses is .

| Dress | Sunglasses |
|--------|------------|
| Black | |
| White | |
| Red | Black |
| Pink | White |
| Purple | Brown |
| Blue | Pink |
| Yellow | |

QUESTION 26

Maha has 6 dresses and 3 sunglasses as shown in the table.

She wants to choose a dress and a pair of sunglasses for her outfit.

In total, she has possible dresses and sunglasses outfits.

The probability that Maha chooses a white dress and pink sunglasses is .

| Dress | Sunglasses |
|--------|------------|
| Black | |
| White | |
| Red | Black |
| Pink | White |
| Purple | Pink |
| Blue | |

QUESTION 26



The probability of obtaining 3 heads when flipping 3 coins is ✓



QUESTION 27



Describe the likelihood of flipping two coins and obtaining 2 tails.



likely

unlikely ✓

certain

impossible

QUESTION 28



Describe the likelihood of flipping two coins and obtaining 2 heads.



- certain
- impossible
- unlikely ✓
- likely

QUESTION 29



The probability of obtaining 3 tails when flipping 3 coins is 12.5% ✓

This event is unlikely ✓ to occur.



This event is to occur.

**QUESTION 30**

Salama is planning for a trip. She will choose a hotel, and a car to rent.

A website provides 15 different hotel choices, and 6 different cars.

Therefore, Salama has different hotel and car options to choose from.

The probability that Salama will choose hotel X and car Y from the available choices is .

-

QUESTION 31



Hamad is planning for a trip.

He will choose a hotel, and a car to rent.

The table shows a list of 10 different hotel options, and 5 different car options that Hamad will choose from.

In total, Hamad has possible hotel and car choices.

The probability that Hamad will choose Hotel M and Car J from the available choices is %

| Hotel | Car |
|---------|-------|
| Hotel A | Car B |
| Hotel C | Car D |
| Hotel E | Car F |
| Hotel G | Car H |
| Hotel I | Car J |
| Hotel K | |
| Hotel M | |
| Hotel O | |
| Hotel Q | |
| Hotel S | |

QUESTION 32



Mustafa is planning for a trip. He chooses a hotel, and a car to rent.

A website provides 5 different hotel choices and 2 different cars.

| Hotels choices | Car choices |
|----------------|-------------|
| City Hotel | Sports Car |
| Family Hotel | Family Car |

QUESTION 32

Mustafa is planning for a trip. He chooses a hotel, and a car to rent.

A website provides 5 different hotel choices, and 2 different cars.

In total, Mustafa has different hotel and car choices.

| Hotels choices | Car choices |
|----------------------|-------------|
| City Hotel | Sports Car |
| Family Hotel | Family Car |
| Park Hotel | |
| Amusement Park Hotel | |
| Beach Hotel | |

The probability that Mustafa will choose City Hotel and a Sports Car from the available choices is %.

QUESTION 33

How many different combinations can you make if you choose one ice cream flavor and one topping from the given choices?

| Ice cream flavor | Topping |
|------------------|-----------|
| Vanilla | Sprinkles |
| Chocolate | Cream |
| Caramel | |
| Coffee | |

2

6

8

4

QUESTION 34

How many different combinations can you make if you choose one snack and one type of juice from the given choices?

| Snack | Juice |
|---------|------------|
| Popcorn | Orange |
| Nachos | Apple |
| Chips | Mango |
| | Strawberry |

- 7
- 4
- 3
- 12 ✓

QUESTION 35

How many different combinations can you make if you choose one snack and one type of juice from the choices below?

| Snack | Juice |
|-----------|------------|
| Popcorn | Avocado |
| Nachos | Orange |
| Chips | Apple |
| Chocolate | Mango |
| | Strawberry |

- 4
- 9
- 20 ✓
- 5

What is the total number of possible outcomes when tossing a coin, and rolling a number cube?



- 2
- 6
- 8
- 12 ✓

QUESTION 37



What is the total number of possible outcomes for rolling a number cube, and randomly choosing a digit from 1 to 6?



- 16
- 36 ✓
- 6
- 12

QUESTION 30

Saif has 3 shirts, 4 pairs of pants, and 5 pairs of shoes.

How many different outfits can Saif make if he has to choose one from each?



12

60 ✓

20

15

QUESTION 31

Latifa is deciding on her outfit.

Latifa has 4 different shirts, 6 pairs of pants, and 5 pairs of shoes.

She selects a shirt, a pair of pants and a pair of shoes.

How many different outfits does Latifa have to choose from ?

24

120 ✓

30

15

QUESTION 40



Nasser wants to choose one summer photo, and one winter photo to place in his album.

If Nasser has 4 summer photos, and 8 winter photos, then he has possible choices for placing one winter and one summer photo in his album.

QUESTION 41



How many different combinations can you make if you choose one ice cream flavor and one topping from the choices below?

| Ice cream flavor | Topping |
|------------------|------------------|
| Vanilla | Sprinkles |
| Chocolate | Cream |
| Strawberry | Strawberry Syrup |
| Lemon | Chocolate Syrup |
| Caramel | Caramel Syrup |
| Coffee | |

11

6

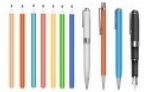
5

30 ✓

QUESTION 42

Meera wants to choose a pen and a pencil to take to school.

She has 4 different pens and 7 different pencils.



Meera has different choices of selecting a pen and a pencil.

QUESTION 43

Mariam wants to choose a pen and a pencil to take to school.

She has 3 different pens and 6 different pencils.



Mariam has possible choices for choosing 1 pen and 1 pencil to take to school.

QUESTION 44



A restaurant offers four sizes of pizza, two types of crust, and eight toppings.

How many possible combinations of pizza are there, with one topping? ✓

QUESTION 45



Alyazia wants to choose a fiction book and a nonfiction book to place on a new shelf. She has 10 fiction books and 9 nonfiction books.

In total, Alyazia can choose ✓ different options to arrange her books.

QUESTION 46



Huda wants to choose a fiction book and a nonfiction book to place on a new shelf.

She has 8 fiction books and 7 nonfiction books.

Huda has a total of choices that she can choose from to arrange the books.

QUESTION 47



Khalifa wants to choose a math book and an Arabic book to place on a new shelf.

He has 8 math books and 9 Arabic books.

Khalifa has a total of possible choices.

17 8 9

QUESTION 48



Sara wants to choose a math book, and an English book to place on a new shelf.

She has 7 math books and 6 English books.

Sara has different choices in total.

QUESTION 49



Abdulla has 5 shirts, 6 pairs of pants, and 2 pairs of shoes.

How many different outfits can Abdulla make if he has to choose one from each?



30

10

60

12

QUESTION 49



Abdulla has 5 shirts, 6 pairs of pants, and 2 pairs of shoes.

How many different outfits can Abdulla make if he has to choose one from each?



30

10

60 ✓

12

QUESTION 60



Salem wants to choose one summer photo, and one winter photo to place in an album page.

If Salem has 3 summer photos, and 5 winter photos, then he has possible choices.

