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QUESTION 1

Jameela observes that she completes her daily tasks 64% of the time. She wants to simulate the chances of her completing her tasks 5 days in a row.
Choose the devices that can be used to simulate this situation.

QUESTION 2

Suhail has a 55% chance of getting to school on time. He wants to know the likelihood that he would get to school on time this week.
Choose the devices that can be used to simulate this situation.

- [ ] 
- [ ] 
- [x]  ✓
- [x]  ✓

QUESTION 3

Sarah has 10 shoes that she wears to work. She chooses one to wear at random every day. She wonders how long it would take for her to wear all of her shoes.

Choose the devices that can be used to simulate this situation.

- [x] 
- [ ] 
- [x] 
- [ ] 

QUESTION 4

Hamad has 18 shirts that he wears to work. He chooses one to wear at random every day. He wonders how long it would take for him to wear all of his shirts.

Choose the devices that can be used to simulate this situation.

- [x] 
- [x] 
- [ ] 
- [ ] 

QUESTION 5

Salama is collecting puzzle pieces found in bags of popcorn.
Each bag contains one piece.
Salama needs 4 different pieces to complete the puzzle.

Choose a device to easily simulate this situation.

QUESTION 6

Each day, the teacher randomly selects a student to be her helper.
There are 24 students in the class.

Describe a method to simulate this situation.

- ○ Roll a number cube and spin a spinner of 6 equal sections of different colors
- ○ Flip a coin and, spin a spinner of 4 equal sections of different colors
- ◉ Roll a number cube and spin a spinner of 4 equal sections of different colors ✓
- ○ Roll two number cubes

QUESTION 7

Each day, the teacher randomly selects a student to be her helper.
There are 36 students in the class.

Describe a method to simulate this situation.

- ○ Spin two spinners each having 5 equal sections of different colors
- ○ Flip a coin and roll a number cube
- ◉ Roll two number cubes ✓
- ○ Spin two spinners each having 4 equal sections of different colors

QUESTION 8

A football team has a 40% chance of winning each game.

1. What device would you use to find the experimental probability of winning 6 consecutive games?
2. How many times would you repeat the experiment?

- [ ] Spin a spinner with 5 equal sections (4 blue and 1 red)
- [ ] 5 times
- [x] 6 times ✓
- [ ] 8 times
- [ ] Spin a spinner with 5 equal sections (1 blue and 4 red)
- [x] Spin a spinner with 5 equal sections (2 blue and 3 red) ✓

QUESTION 9

A football team has an 80% chance of winning each game.

1. What device would you use to find the experimental probability of winning 8 consecutive games?
2. How many times would you repeat the experiment?

- [x] Spin a spinner with 5 equal sections (4 blue and 1 red) ✓
- [ ] 6 times
- [ ] 5 times
- [ ] Spin a spinner with 5 equal sections (3 blue and 2 red)
- [ ] Roll a number cube
- [x] 8 times ✓

QUESTION 10

Emran claims that 70% of a store's shirts are made in the UAE.

1. What device should Emran use to find the experimental probability of randomly choosing 6 shirts made in the UAE?
2. How many times should he repeat the experiment?

- ☐ Randomly select a marble from a bag containing 2 red and 5 blue marbles
- ☐ Randomly select a marble from a bag containing 3 red and 4 blue marbles
- ☐ 5 times
- ☐ 4 times
- ☑ Randomly select a marble from a bag containing 7 red and 3 blue marbles ✓
- ☑ 6 times ✓

QUESTION 11

Saif claims that 60% of a store's shirts are made in the UAE.

1. What device should Saif use to find the experimental probability, of randomly choosing 8 shirts made in the UAE?
2. How many times should he repeat the experiment?

- ☐ Randomly select a marble from a bag containing 2 red and 2 blue marbles
- ☐ 6 times
- ☐ Randomly select a marble from a bag containing 3 red and 3 blue marbles

Saif claims that 60% of a store's shirts are made in the UAE.

1. What device should Saif use to find the experimental probability, of randomly choosing 8 shirts made in the UAE?
2. How many times should he repeat the experiment?

- [ ] Randomly select a marble from a bag containing 2 red and 2 blue marbles
- [ ] 6 times
- [ ] Randomly select a marble from a bag containing 3 red and 3 blue marbles
- [x] 8 times ✓
- [ ] 5 times
- [x] Randomly select a marble from a bag containing 3 red and 2 blue marbles ✓

QUESTION 12

Which devices would be used to simulate a 75% chance?

- (•) Flip 2 coins ✓
- ( ) Flip 3 coins
- ( ) Roll 3 number cubes
- ( ) Roll 2 number cubes

QUESTION 13

Sara is collecting puzzle pieces found in bags of popcorn.
Each bag contains one piece.
Sara needs 4 different pieces to complete the puzzle.

She used 2 coins and flipped them 12 ✓ times to simulate the number of different pieces she could get in 12 bags.

QUESTION 14

Salama is collecting puzzle pieces found in bags of popcorn.
Each bag contains one piece.
Salama needs 4 different pieces to complete the puzzle.
She used 2 coins to simulate the number of different pieces she could get in 8 bags.

How many times should Salama flip the two coins?

- ○ 6 times
- ○ 4 times
- ◉ 8 times ✓
- ○ 12 times

QUESTION 15

Hamda has 8 bracelets. Each school day, she randomly selects a bracelet to wear.

Hamda could use [3 coins] to simulate this situation since they show [8] possible outcomes.

QUESTION 16

A team has 40% chance of winning each game in a tournament.
Describe a method to simulate the number of winnings in the next five games.

- Randomly select a marble from a bag containing 2 red and 3 blue marbles.
  Repeat 4 times with replacement.
- **Randomly select a marble from a bag containing 2 red and 3 blue marbles.**
  Repeat 5 times with replacement. ✓
- Randomly select a marble from a bag containing 3 red and 3 blue marbles.
  Repeat 5 times with replacement.
- Randomly select a marble from a bag containing 3 red and 3 blue marbles.
  Repeat 4 times with replacement.

QUESTION 17

A team has 80% chance of winning each game in a tournament.
Describe a method to simulate the number of winnings in the next 6 games.

- Randomly select a marble from a bag containing 1 red and 4 blue marbles. Repeat 5 times with replacement.
- Randomly select a marble from a bag containing 1 red and 3 blue marbles. Repeat 5 times with replacement.
- ✓ Randomly select a marble from a bag containing 1 red and 4 blue marbles. Repeat 6 times with replacement.
- Randomly select a marble from a bag containing 1 red and 3 blue marbles. Repeat 6 times with replacement.

QUESTION 18

Humaid makes 75% of his free-throw attempts.

Describe a method he could use, to find the experimental probability of scoring in 5 consecutive free-throw attempts.

- Flip a coin 5 times
- ✓ Spin a spinner with 4 equal sections (3 blue and 1 red) 5 times
- Spin a spinner with 5 equal sections (4 blue and 1 red) 4 times
- Flip a coin 4 times

QUESTION 19

How can a $\frac{1}{6}$ chance be simulated?

- [x] Use a number cube
- [ ] Use a coin
- [ ] Use a bag containing 1 blue marble, and 6 red marbles
- [ ] Use a bag containing 1 red marble, and 6 blue marbles

QUESTION 20

Mansoor makes 25% of his free-throw attempts.

Describe a method he could use to find the experimental probability of scoring in 7 consecutive free-throw attempts.

- [ ] Flip a coin 4 times
- [x] Spin a spinner with 4 equal sections (1 blue and 3 red) 7 times
- [ ] Flip a coin 7 times
- [ ] Spin a spinner with 7 equal sections (1 blue and 6 red) 4 times

QUESTION 21

Nasser wins 20% of the video games he plays.

Describe a method he could use, to find the experimental probability of winning 6 consecutive games.

- Roll a number cube 5 times
- Spin a spinner with 6 equal sections (1 blue and 5 red) 5 times
- Flip a coin 6 times
- Spin a spinner with 5 equal sections (1 blue and 4 red) 6 times ✓

QUESTION 22

Ali wins 30% of the video games he plays.

Describe a method he could use to find the experimental probability of winning 7 consecutive games.

- Spin a spinner with 10 equal sections (4 blue and 6 red) 6 times
- Spin a spinner with 10 equal sections (3 blue and 7 red) 5 times
- Spin a spinner with 10 equal sections (6 blue and 4 red) 30 times
- Spin a spinner with 10 equal sections (3 blue and 7 red) 7 times ✓

QUESTION 23

There is a 90% chance of getting a clear, sunny day in a city, during the month of August.
Describe a method to find the experimental probability, of getting clear, sunny days for all the days, in the first week of August.

- [x] Spin a spinner with 10 equal sections (1 blue and 9 red) 7 times
- [ ] Spin a spinner with 10 equal sections (2 blue and 8 red) 7 times
- [ ] Spin a spinner with 10 equal sections (1 blue and 9 red) 5 times
- [ ] Spin a spinner with 10 equal sections (2 blue and 8 red) 5 times

QUESTION 24

There is a 10% chance of getting a clear, sunny day in a city in January.

Describe a method to find the experimental probability of having, each day in the first week of January, sunny and clear.

- [x] A spinner with 10 equal sections (1 blue and 9 red) 7 times
- [ ] A spinner with 10 equal sections (3 blue and 7 red) 5 times
- [ ] A spinner with 10 equal sections (1 blue and 9 red) 5 times
- [ ] A spinner with 10 equal sections (3 blue and 7 red) 7 times

QUESTION 25

How can a 30% chance be simulated?

- Use a spinner with 10 equal sections (4 blue and 6 red)
- Use a spinner with 10 equal sections (2 blue and 8 red)
- Use a spinner with 10 equal sections (5 blue and 5 red)
- Use a spinner with 10 equal sections (3 blue and 7 red) ✓

QUESTION 26

How can a 70% chance be simulated?

- Spin a spinner with 10 equal sections (3 blue and 7 red) ✓
- Spin a spinner with 10 equal sections (4 blue and 6 red)
- Spin a spinner with 10 equal sections (5 blue and 5 red)
- Spin a spinner with 10 equal sections (2 blue and 8 red)

QUESTION 27

How can a 25% chance be simulated?

- [x] Spin a spinner with 4 equal sections (1 red and 3 blue) ✓
- [x] Spin a spinner with 8 equal sections (2 red and 6 blue) ✓
- [ ] Spin a spinner with 10 equal sections (5 red and 5 blue)
- [ ] Spin a spinner with 4 equal sections (2 red and 2 blue)
- [ ] Spin a spinner with 10 equal sections (2 red and 8 blue)
- [ ] Spin a spinner with 8 equal sections (4 red and 4 blue)

QUESTION 28

How would a 75% chance be simulated?

- [ ] Spin a spinner with 4 equal sections (2 red and 2 blue)
- [x] Spin a spinner with 8 equal sections (2 red and 6 blue) ✓
- [x] Spin a spinner with 4 equal sections (1 red and 3 blue) ✓
- [ ] Spin a spinner with 8 equal sections (4 red and 4 blue)
- [ ] Spin a spinner with 10 equal sections (5 red and 5 blue)
- [ ] Spin a spinner with 10 equal sections (2 red and 8 blue)

QUESTION 29

Mayed guesses 40% of the multiple-choice questions right in his exams.
How can this situation be modeled?

- Roll a number cube
- Spin a spinner with 5 equal sections (2 red and 3 blue) ✓
- Roll 2 number cubes
- Spin a spinner with 4 equal sections (2 red and 2 blue)

QUESTION 30

How can a $\frac{5}{6}$ chance be simulated?

- Use a coin
- Use a number cube ✓
- Use a bag containing 5 red marbles and 5 blue marbles
- Use a bag containing 5 blue marbles and 6 red marbles

QUESTION 31

A teacher can use a number cube ✓ to simulate a $\frac{4}{6}$ chance to his students.

- use a bag containing 4 blue marbles and 6 red marbles
- use a coin
- use a bag containing 4 red marbles and 5 blue marbles

QUESTION 32

A game randomly offers 1 badge out of two different badges, each time you win a level.
Describe a model, that could be used to simulate this situation.

- ○ Randomly selecting a marble out of 9 colored marbles of the same size
- ○ Spinning a spinner with 4 equal sections
- ○ Spinning a spinner with 8 equal sections
- ◉ Tossing a coin ✓

QUESTION 33

The teacher randomly assigns a task out of five different tasks, to each student each week.

Describe a method that could be used to simulate this situation.

- [x] Spinning a spinner with 5 equal sections of different colors
- [ ] Spinning a spinner with 6 equal sections of different colors
- [ ] Tossing a coin
- [ ] Rolling a number cube

QUESTION 34

Bushra is collecting puzzle pieces found in bags of popcorn.
Each bag contains one piece.
Hamda needs 6 different pieces to complete the puzzle.

Choose a device to simulate this situation.

- [x] 
- [ ] 
- [ ] 
- [ ] 

QUESTION 35

A student tries to guess true or false questions on an exam.
Describe a model to simulate this situation.

- Select a marble from a bag of 8 marbles of different colors
- Flip a coin ✓
- Spin a spinner with 11 equal sections of different colors
- Spin a spinner with 3 equal sections of different colors

QUESTION 36

Maryam tries to guess the gender of the baby her mom is carrying.
Describe a model to simulate this situation.

- Select a marble from a bag of 5 marbles of different colors
- Spin a spinner with 6 equal sections of different colors
- Flip a coin ✓
- Spin a spinner with 3 equal sections of different colors

QUESTION 37

Which of the following devices simulate an experiment with 2 different outcomes?

- ☐ A spinner with 9 equal sections of different colors
- ☑ A bag of marbles containing 2 marbles of different colors ✓
- ☐ A spinner with 3 equal sections of different colors
- ☐ A bag of marbles containing 10 marbles of different colors
- ☑ A spinner with 2 equal sections of different colors ✓

QUESTION 38

Which of the following devices simulate an experiment with 2 different outcomes?

- ☐ A spinner with 5 equal sections of different colors
- ☑ A bag cointaining a blue marble and a red marble ✓
- ☐ A bag containing 2 blue marbles and 1 red marble
- ☐ A spinner with 7 equal sections of different colors
- ☐ A bag containing 1 blue marble and 2 red marbles
- ☑ A coin ✓

QUESTION 39

Each time Hessa starts her computer, her computer system randomly displays 1 picture out of 5 available pictures.

Select a device to simulate this situation.

- [x] Spin a spinner with 5 equal sections of different colors
- [ ] Spin a spinner with 7 equal sections of different colors
- [ ] Roll a number cube
- [ ] Flip a coin twice

QUESTION 40

Each morning Amani starts her computer and her computer randomly displays
1 picture out of 6 available pictures.

Select a device to simulate this situation.

- [ ] Spin a spinner with 7 equal sections of different colors
- [ ] Spin a spinner with 5 equal sections of different colors
- [x] Roll a number cube
- [ ] Flip a coin

QUESTION 41

The teacher randomly assigns a task out of three different tasks to each student each week.

Describe a method that could be used to simulate this situation.

- Spinning a spinner with five equal sections of different colors
- ✓ Spinning a spinner with three equal sections of different colors
- Tossing a coin
- Tossing two coins

QUESTION 42

A game randomly offers 1 badge out of two different badges each time you win a level.
Salem chose a coin to simulate this situation.

How many times should Salem toss the coin to get 2 different badges?

- ✓ The number of times it needs to obtain at least one head and one tail
- The number of times it needs to obtain two heads
- 2 times
- 3 times

QUESTION 45

Hamda is collecting puzzle pieces found in bags of popcorn.
Each bag contains one piece. Hamda needs 6 different pieces to complete the puzzle.
She used a number cube to simulate the number of different pieces she could get in 8 bags.

How many times should Hamda roll the number cube?

- ○ 2 times
- ○ 16 times
- ○ 6 times
- ◉ 8 times ✓

QUESTION 44

Fatima is collecting puzzle pieces found in bags of popcorn.
Each bag contains one piece. Fatima needs 6 different pieces to complete the puzzle.

She used a number cube and roll it [10 ✓] times to simulate the number of different pieces she could get in 10 bags.

✣ 20 ✣ 6 ✣ 2

QUESTION 45

The teacher randomly assigns a task out of five different tasks to each student each week.

Ali used the spinner to simulate the tasks he could get in 10 weeks. He should spin the spinner 10 ✓ times.

QUESTION 46

The teacher randomly assigns a task out of five different tasks to each student each week.
Abdulla used the spinner to simulate the tasks he could get in 7 weeks.

How many times should Abdulla spin the spinner?

- ○ 6 times
- ○ 12 times
- ◉ 7 times ✓
- ○ 5 times

QUESTION 47

The teacher randomly assigns a task out of three different tasks, to each student each week.
Ahmed uses the spinner on the right to simulate the tasks he could get in 6 weeks.

How many times should Ahmed spin the spinner?

- ○ 3 times
- ○ 12 times
- ○ 9 times
- ◉ 6 times ✓

QUESTION 48

Saif is using two coins to simulate the answers to 5 multiple choice questions he is trying to guess.
Each question has 4 different choices.

How many times should he flip the 2 coins?

- ○ 4 times
- ◉ 5 times ✓
- ○ 2 times
- ○ 6 times

QUESTION 49

Rouba is using two coins to simulate the answers to 7 multiple choice questions she is trying to guess.

Each question has 4 different choices. She should flip the 2 coins 7 ✓ times.

QUESTION 50

The teacher randomly assigns a task out of three different tasks, to each student each week.

Nasser spins the spinner 6 ✓ times to simulate the tasks he could get in 6 weeks.