



Worksheet 47: Listing Possible Outcomes

Name: _____ Date: _____

Score: _____

Section 1: Fluency (Questions 1–10)

Question 1:

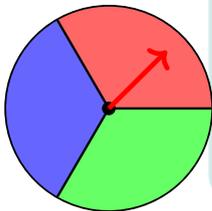
Look at this die. List **all the possible numbers** you can roll.



Answer: _____

Question 2:

Look at this spinner. List **all the colours** you could spin.



Answer: _____

Question 3:

If you flip a coin, what are the **two possible outcomes**?

Answer: _____

Question 4:

A spinner has 4 equal sections: Yellow, Orange, Purple, Pink. List all possible outcomes.

Answer: _____



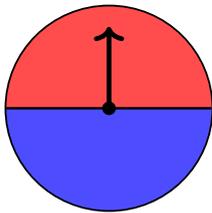
Question 5:

You have a bag with numbered balls: 1, 2, 3, 4, 5. If you pick one ball, what are the possible numbers?

Answer: _____

Question 6:

Look at this spinner. What colours could it land on?



Answer: _____

Question 7:

Emma has a deck with 4 cards: Ace, King, Queen, Jack. She picks one card. What are the possible outcomes?

Answer: _____

Question 8:

A traffic light can show three colours. What are they?

Answer: _____

Question 9:

Tom rolls a normal 6-sided die. Can he roll a 7? Why or why not?

Answer: _____

Question 10:

A bag contains 3 shapes: Triangle, Circle, Square. If you pick one, what are the possible



outcomes?

Answer: _____



Good Job!

Why don't dice ever get lost? Because they always know which side they're on!





Section 2: Reasoning (Questions 11–20)

Question 11:

True or False: If I flip a coin, I can get a Head or a Tail.

Answer: _____

Question 12:

True or False: If I roll a normal die, I can get a 7.

Answer: _____

Question 13:

True or False: A spinner with Red, Blue, and Green can land on Yellow.

Answer: _____

Question 14:

Sarah says: "When I pick a marble from a bag of Red and Blue marbles, I might get a Green marble." Is she correct?

Answer: _____

Explain: _____

Question 15:

A die shows numbers 1 to 6. Jake says he rolled a 0. Is this possible?

Answer: _____

Question 16:

A bag contains only Red balls. Emma picks one ball. What colour will it be?

Answer: _____

Question 17:



Tom spins a spinner with 4 sections: North, South, East, West. Can it land on "Up"?

Answer: _____

Question 18:

A coin has two sides: Heads and Tails. How many possible outcomes are there when you flip it?

Answer: _____

Question 19:

Lisa has cards numbered 5, 6, 7, 8. She picks one card. Could she pick the number 3?

Answer: _____

Why? _____

Question 20:

A spinner has 5 equal sections: Monday, Tuesday, Wednesday, Thursday, Friday. List all possible days it could land on.

Answer: _____



Good Job!

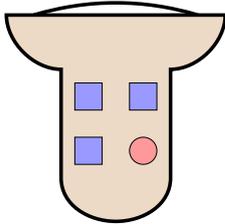
*What's a mathematician's favourite type of luck?
Probability!*



Section 3: Challenge (Questions 21–30)

Question 21:

Look at the shapes in this bag. If you pull out one shape, what are the possible outcomes?



Answer: _____

Question 22:

A bag has 5 Green marbles and 1 Yellow marble. What are the two possible colour outcomes?

Answer: _____

Question 23:

Tom has a spinner with Red, Red, Red, Blue. He spins it once. What are the possible colours?

Answer: _____

Question 24:

Emma picks a card from a deck of: 2, 4, 6, 8, 10. Are all the outcomes even numbers?

Answer: _____

Question 25:

A bag contains letters: A, B, C, D, E. You pick one letter. How many possible outcomes are there?

Answer: _____



Question 26:

Design your own spinner with 3 colours. Draw it and list the possible outcomes.

Possible outcomes: _____

Question 27:

A mystery box contains: Star, Heart, Diamond. You reach in and pick one. What could you get?

Answer: _____

Question 28:

Jake rolls two dice. List all possible outcomes for **one** die.

Answer: _____

Question 29:

A bag has Red, Red, Blue, Blue, Green. If you pick one marble, what are the possible colours?

Answer: _____

Question 30:

Create your own "outcome" question. Draw a container with items and ask: "What are the possible outcomes?"



Good Job!

Why did the marble never get picked? It was always out of the bag!





Answer Key

Worksheet 47: Listing Possible Outcomes

Question 1:

1, 2, 3, 4, 5, 6

Question 2:

Red, Blue, Green

Question 3:

Heads, Tails

Question 4:

Yellow, Orange, Purple, Pink

Question 5:

1, 2, 3, 4, 5

Question 6:

Red, Blue

Question 7:

Ace, King, Queen, Jack

Question 8:

Red, Yellow (Amber), Green

Question 9:

No; a standard die only has 1-6

Question 10:

Triangle, Circle, Square

Question 11:

True

Question 12:

False

Question 13:

False

Question 14:

No; Green is not in the bag

Question 15:

No

Question 16:

Red

Question 17:

No

Question 18:

2 outcomes

Question 19:

No; 3 is not in the cards

Question 20:

Monday, Tuesday, Wednesday, Thursday, Friday

Question 21:

Square, Circle

Question 22:

Green, Yellow

Question 23:

Red, Blue

Question 24:

Yes

Question 25:

5 outcomes

Question 26:

Check drawing and list

Question 27:

Star, Heart, Diamond

Question 28:

1, 2, 3, 4, 5, 6

Question 29:

Red, Blue, Green

Question 30:

Check student's creative question



Worksheet 48: The Language of Chance

Name: _____ Date: _____

Score: _____

Section 1: Fluency (Questions 1–10)

Question 1:

Look at the probability scale below.

Where would you place this event: **"The sun will rise tomorrow."**

Answer: _____

Question 2:

Where would you place this event: **"You will grow wings and fly today."**

Answer: _____

Question 3:

Circle the correct word: Flipping a coin and getting Heads is (**Impossible** / **Unlikely** / **Equal Chance** / **Likely** / **Certain**).

Answer: _____

Question 4:

It will snow in the Australian desert in summer. This is (**Impossible** / **Unlikely** / **Likely** / **Certain**).

Answer: _____

Question 5:

You will eat food today. This is (**Impossible** / **Unlikely** / **Likely** / **Certain**).

Answer: _____



Question 6:

Rolling a 7 on a normal die is (**Impossible / Unlikely / Certain**).

Answer: _____

Question 7:

Tomorrow will be Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, or Sunday. This is (**Unlikely / Certain / Equal Chance**).

Answer: _____

Question 8:

A bag has 10 Red marbles and 1 Blue marble. Picking a Red marble is (**Impossible / Unlikely / Likely / Certain**).

Answer: _____

Question 9:

Picking a Green marble from a bag of only Red marbles is (**Impossible / Unlikely / Likely**).

Answer: _____

Question 10:

A spinner is half Red and half Blue. Landing on Red is (**Impossible / Equal Chance / Certain**).

Answer: _____

**Good Job!**

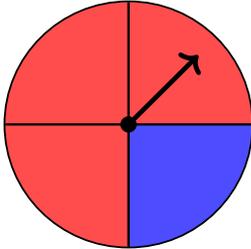
What are the chances of a cow flying? Udderly impossible!



Section 2: Reasoning (Questions 11–20)

Question 11:

Look at this spinner. Is it more likely to land on Red or Blue? Why?



Answer: _____

Why: _____

Question 12:

A bag has 8 Green balls and 2 Yellow balls. Which colour are you more likely to pick?

Answer: _____

Question 13:

Tom has a spinner with 5 Blue sections and 1 Red section. Is landing on Blue **Likely** or **Unlikely**?

Answer: _____

Question 14:

Emma says: "It's certain I will roll a 6 on my next die roll." Is she correct?

Answer: _____

Explain: _____

Question 15:

A jar has 1 Red marble, 1 Blue marble, and 1 Green marble. Picking Blue has an **Equal Chance** compared to picking which other colours?

Answer: _____



Question 16:

It will rain chocolate tomorrow. Is this **Impossible** or **Unlikely**?

Answer: _____

Question 17:

You flip a coin. Getting Heads or Tails is (**Certain** / **Likely** / **Equal Chance**).

Answer: _____

Question 18:

Sarah has a bag with 20 Red marbles. She picks one. Getting Red is (**Likely** / **Certain** / **Impossible**).

Answer: _____

Question 19:

A spinner has 10 sections: 9 are Yellow, 1 is Purple. Landing on Purple is (**Likely** / **Unlikely** / **Impossible**).

Answer: _____

Question 20:

Jake says: "The chance of picking a triangle from a bag of only circles is Unlikely." Is he correct? Why or why not?

Answer: _____

**Good Job!**

Why did the probability go to the doctor? It wasn't feeling likely!



Section 3: Challenge (Questions 21–30)

Question 21:

Draw a spinner where landing on Green is **Unlikely** but landing on Yellow is **Likely**.

Question 22:

Design a bag of marbles where picking Blue is **Certain**.

What's in your bag? _____

Question 23:

Create a spinner with 4 sections where landing on any colour has an **Equal Chance**.

Question 24:

Emma has 6 cards: 5 Hearts and 1 Spade. Is picking a Heart **Likely** or **Certain**?

Answer: _____

Explain: _____



Question 25:

Tom says: "I have a bag where picking Red is Impossible." What must be true about his bag?

Answer: _____

Question 26:

Describe a real-life event that is **Certain**.

Answer: _____

Question 27:

Describe a real-life event that is **Impossible**.

Answer: _____

Question 28:

A bag has 3 Red, 3 Blue, and 3 Green marbles. Picking any colour has (**Equal Chance / Likely / Certain**).

Answer: _____

Question 29:

Design a spinner where one colour is **Impossible** to land on.

How did you do it? _____



Question 30:

Write your own probability question using the words: **Likely, Unlikely, or Equal Chance.**

Question: _____

Answer: _____



Good Job!

*Why was the spinner so good at making decisions?
It always knew which way to turn!*





Answer Key

Worksheet 48: The Language of Chance

Question 1:

Certain

Question 2:

Impossible

Question 3:

Equal Chance

Question 4:

Impossible (or Unlikely)

Question 5:

Likely (or Certain)

Question 6:

Impossible

Question 7:

Certain

Question 8:

Likely

Question 9:

Impossible

Question 10:

Equal Chance

Question 11:

Red; There are more Red sections (3) than Blue (1)

Question 12:

Green

Question 13:

Likely

Question 14:

No; It's possible but not certain

Question 15:

Red and Green (all equal)

Question 16:

Impossible

Question 17:

Certain (you will get one of them)

Question 18:

Certain

Question 19:

Unlikely

Question 20:

No; It should be Impossible (no triangles in bag)

Question 21:

Check drawing: Many Yellow sections, few Green

Question 22:

Only Blue marbles

Question 23:

Check drawing: 4 equal sections

Question 24:

Likely; Most cards are Hearts but not all

Question 25:

The bag has no Red marbles

Question 26:

Examples: Night will follow day; You will get older

Question 27:

Examples: A dog speaking English; Time going backwards

Question 28:

Equal Chance

Question 29:

Don't include that colour on the spinner

Question 30:

Check student's creative question and answer