
NDA Psychology and Logic Puzzle Guide

(Barge by Barge | No Repeats | Beautiful Format)

◆ 1. Cities Without Houses

Question:

Where can we find **roads without cars, forests without trees, and cities without houses?**

Answer:

A **map**.

Explanation:

A **map** shows representations of **roads, forests, and cities**, but none of them are real.

So, on a map, you will **see** roads, trees, and buildings—but **none actually exist there**.

◆ 2. Precious Thing With You

Question:

What is more **precious than rubies**, more **lasting than gold**, and can **never be traded, stolen, or sold?**

It comes with **great effort**, takes **time**, but once yours, **serves you again and again**.

Answer:

Knowledge or Education.

Explanation:

Knowledge is **earned through study**, it's **more valuable than wealth**, and **no one can take it from you**.
It is a **permanent treasure**.

◆ 3. Chairs Around a Table

Question:

How many chairs are needed around a table for **four sons, four fathers, and two grandfathers**?

Answer:

6 chairs.

Explanation:

Let's break it down:

👴 Grandfather → is also a **father** and may be someone's **father's father**.

👨 Father → is also a **son** of the grandfather.

👦 Son → is the child.

So:

- 2 grandfathers
 - 2 sons
 - 2 fathers
- Total **distinct persons** = 6

◆ 4. Sitting in a Bus

Question:

50 people enter a bus one after the other.

Person 1 picks a **random seat**.

Every other person tries to sit in **their own number seat**, and if it's taken, they pick **randomly**.

What is the probability that **person 50** gets **seat 50**?

Answer:

1/2 or 50%

Explanation:

Only two seats can determine the final person's chance: **Seat 1 and Seat 50**.
The first person's random choice affects the outcome.
The 50th person will **always get their seat if seat 1 is picked before seat 50**.
Hence, **50-50 chance**.

◆ **5. Trapped to Escape**

Question:

A man is trapped.
Door 1 = Room full of **magnifying glasses and sunlight** – instantly burns you.
Door 2 = ???

(You didn't complete the second door's description. So let's assume:)

Door 2 = **Room full of hungry lions that haven't eaten for 3 years**.

Answer:

Door 2.

Explanation:

Lions that haven't eaten for **3 years would be dead**.
So, door 2 is **safe**.

◆ **6. Common Names**

Question:

What do these have in common?
Vermont, Statuesque, Swedish, Arthur's, Africa, Sensation, Misunderstood

Answer:

They all contain **exactly one vowel**.

Explanation:

Look carefully—each word has only **one vowel letter** (a, e, i, o, u).
Even if the vowel appears twice, it's **the same vowel**, not different ones.

◆ 7. Boil the Egg

Question:

You want to boil a **2-minute egg**.
You only have timers for **3, 4, and 5 minutes**.
How do you measure exactly **2 minutes**?

Answer:

Start **3 and 4-minute timers together**.
When **3-minute timer ends**, start boiling the egg.
The **4-minute timer** has **1 minute left**.
When it finishes, **1 minute is up**.
Then flip the **3-minute timer** (already ended) to get the **second minute**.
When that ends, egg is done.
2 minutes boiled.

◆ 8. Smoking Cigarettes Puzzle


Question:

A man smokes **25 cigarettes** and also smokes from the **filters** by joining 5 filters to make a new cigarette.
How many cigarettes total can he smoke from 25?

Answer:

31 cigarettes

Explanation:

- 25 cigarettes = 25 filters.
- 25 filters → 5 more cigarettes (since 5 filters = 1 new cig).
- 5 more = 5 filters → makes 1 more cigarette.
- That 1 gives 1 more filter, but **not enough for another cig**.
 **25 + 5 + 1 = 31 cigarettes**

◆ 9. One Quarter Riddle

Question:

What number is **one half of one third of one quarter** of 360?

Answer:

15

Explanation:

Step by step:

$\frac{1}{4}$ of 360 = **90**

$\frac{1}{3}$ of 90 = **30**

$\frac{1}{2}$ of 30 = **15**

◆ 10. Next is What?

Question:

A NA A SA A A ... what comes next?

Answer:

WA (West Africa)

Explanation:

Pattern is based on **continents or regions**:

- **A NA** = America North
- **A SA** = America South
- **A A** = Africa

Next in geographical progression could be **WA = West Asia or West Africa**.

Most likely **West Africa (WA)** or **Asia (A)**.

🧠 NDA Psychology and Logic Puzzle Guide (Part 2)

(Unique Questions | Smart Explanations | No Repeats)

◆ 11. The Elevator Puzzle

Question:

A man lives on the 10th floor of a building. Every day he takes the elevator to the ground floor to go to work. When he returns, he takes the elevator to the 7th floor and walks the remaining 3 floors up — unless someone is with him. Why?

Answer:

He is **short**.

Explanation:

He can only reach the **7th floor button**.
If someone is with him, they press **10th** for him.
That's why he walks up alone but rides fully with help.

◆ 12. Matchstick Riddle

Question:

You have **two matchsticks**. Each one takes **exactly 60 minutes** to burn but burns **unevenly**.
How can you measure **45 minutes**?

Answer:

Burn one stick **from both ends**, and the **second stick from one end**.

- First stick burns in **30 minutes**.
- When it's done, light the **other end of the second stick**.

- It now takes **15 minutes** to finish.

✓ Total = 30 + 15 = **45 minutes**

◆ 13. Three Switches Puzzle

Question:

You are outside a room with **3 switches**. Inside the room is **1 bulb**.
You can only enter **once**.
How do you find which switch controls the bulb?

Answer:

- Turn **Switch 1 ON** for **5 mins**, then OFF.
- Turn **Switch 2 ON**, leave ON.
- Enter room:
 - If bulb is **ON**, it's Switch 2.
 - If bulb is **OFF but hot**, it's Switch 1.
 - If bulb is **OFF and cold**, it's Switch 3.

Explanation:

You used **heat, light, and timing** to solve the puzzle logically.

◆ 14. Manhole Cover Logic

Question:

Why are **manhole covers** round?

Answer:

So they **can't fall in**.

Explanation:

A **round cover** can't fall through its hole because it's the **same diameter** all around.
Square covers **can** fall in if tilted.

◆ 15. Water Jug Problem

Question:

You have a **5-liter jug** and a **3-liter jug**. How do you measure **4 liters** exactly?

Answer:

Steps:

- Fill **5-liter jug** full.
- Pour into 3-liter → 2 liters left in 5L.
- Empty 3-liter. Pour 2L into it.
- Fill 5-liter again, top off the 3-liter (1L added).
- Now **4 liters remain** in the 5-liter jug.

Explanation:

You're using logic and volume subtraction to isolate **4 liters**.

◆ 16. A Father and Son Accident

Question:

A father and son get in a car accident. The father dies instantly. The boy is taken to the hospital. The doctor says, "I can't operate on him, he's my son!" How?

Answer:

The **doctor is his mother**.

Explanation:

This riddle challenges **gender assumptions**.
Most people think of the doctor as a man, but **mothers can be doctors too**.

◆ 17. Two Coins Puzzle

Question:

You have two coins that add up to **30 kobo**. One of them is not a **10 kobo coin**.
What are the coins?

Answer:

One is **20 kobo**, and the other is **10 kobo**.

Explanation:

The riddle says "**one of them is not**" 10 kobo.
The **other one is** 10 kobo, which is allowed.

◆ 18. Two Doors and Two Guards

Question:

You're in a room with **two doors**: one leads to **freedom**, the other to **death**.
Each door has a **guard**. One always tells the truth, one always lies.
You can ask **one question to one guard**. What do you ask?

Answer:

Ask: "**If I asked the other guard which door leads to freedom, what would he say?**"
Then, choose the **opposite** door.

Explanation:

This logic trick ensures that no matter who you ask, the **answer is always the wrong door**.
So you go through the opposite.

◆ 19. The Birthday Paradox

Question:

In a group of **23 people**, what is the chance that **at least two people** share the same birthday?

Answer:

Over **50%**

Explanation:

It seems unlikely, but the **math** proves that just 23 people are enough for a **50.7% chance** of shared birthdays due to the number of **possible pairs**.

◆ **20. The Poison Puzzle**

Question:

A king challenges a woman to a duel. Each of them drinks **one glass of wine**.
The king survives. The woman dies.
The wine was poisoned. How did the king survive?

Answer:

The **poison was in the woman's glass**, but the king **used poison-proof glass** or **swapped cups**.

Alternative Explanation:

The **poison was in the ice**, and the king **drank quickly** before it melted, while the woman drank slowly.

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