

Spoke Number ChatGPT Prompt

Series of 2 options (O,U)

Prompt:

Create an Excel (.xlsx) spreadsheet containing a table with the following columns:

Columns

1. Spoke Number
 2. Over/Under Option columns (create as many columns as needed so each option has its own cell)
 3. Multiples
-

Rows

Generate rows for every **Spoke Number from 12 through 62 inclusive**.

Calculation Rules

For each Spoke Number N:

1. Compute the adjacent values:
 - o $A = N - 1$
 - o $B = N + 1$
 2. Determine the **qualified multiples**:
 - o Only test multiples: **3, 4, 5, 6**
 - o A multiple is qualified if it evenly divides **either A or B**
 - o Ignore all other multiples (1,2 and anything ≥ 7 are never used)
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Over/Under Mapping (STRICT — DO NOT ALTER)

Each qualified multiple produces specific Over/Under options:

Multiple Over/Under Options Generated

- | | |
|---|-----------------|
| 3 | O2,U1 |
| 4 | O3,U1 and O2,U2 |

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Multiple Over/Under Options Generated

5 O3,U2
6 O3,U3

Rules:

- Each option must be placed in its **own column cell**
 - Remove duplicates
 - Order options from lowest multiple to highest multiple (3 → 6)
 - The Multiples column lists the qualified multiples separated by commas
-

Validation Examples (must match exactly)

Spoke 33

- 32 and 34
- Only divisible by 4
- Output options: O3,U1 and O2,U2
- Multiples: 4

Spoke 49

- 48 and 50
 - Divisible by 3,4,5,6
 - Output options:
O2,U1
O3,U1
O2,U2
O3,U2
O3,U3
 - Multiples: 3,4,5,6
-

Output Requirements

- Produce a real downloadable **.xlsx file**
- Include a header row
- Freeze the header row
- Apply a basic table format
- Do not include explanations — only generate the spreadsheet

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Series of 3 options (O,U,O)

Create a real Excel (.xlsx) spreadsheet containing a table with the following columns:

Columns

1. Spoke Number
2. Over/Under Option columns (create as many columns as needed so each option has its own cell)
3. Multiples

Rows

Generate rows for every **Spoke Number from 12 through 62 inclusive**.

Logic

For each spoke number N:

1. Compute
$$A = N - 1$$
$$B = N + 1$$
 2. Determine qualified multiples
 - Test only integers m in {3,4,5,6,7,8}
 - m is qualified if m evenly divides A OR m evenly divides B
 3. For each qualified multiple m, generate all ordered triples (a,b,c) such that
 - a, b, c are whole numbers in {1,2,3}
 - $a + b + c = m$
-

Over/Under Mapping (STRICT — DO NOT ALTER)

Convert each triple into an option string in exactly this format:

O{a},U{b},O{c}

Then apply filters:

- Remove the specific option: **O1,U1,O1**
- Keep only options where the first value is greater than or equal to both others:
 $a \geq b$ AND $a \geq c$

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Remove duplicates while preserving first-seen order.

Sort multiples ascending (3 → 8) and output options grouped in that same multiple order.

Place each option into its own separate “Over/Under Option” cell (expand columns as needed).

In the Multiples column list the qualified multiples as comma-separated values.

Validation Examples (must match exactly)

Spoke 33

A = 32, B = 34

Qualified multiples: 4 and 8

Valid options must only be those derived from triples where $a \geq b$ and $a \geq c$ and not equal to O1,U1,O1

Spoke 49

A = 48, B = 50

Qualified multiples: 3,4,5,6

Options must appear grouped in multiple order and filtered by the rules above

Output Requirements

Produce a real downloadable .xlsx file

Include a header row

Freeze the header row

Apply a basic table format

Do not include explanations — only generate the spreadsheet