

Make 200 Investigation

My Results

| | |
|---|---|
| 1 | 7 |
| 9 | 2 |

Total =
200!!

| | |
|---|---|
| 2 | 5 |
| 9 | 3 |

Total =
200!!

| | |
|---|---|
| 7 | 1 |
| 3 | 8 |

Total =
200!!

| | |
|---|---|
| 6 | 2 |
| 4 | 7 |

Total =
200!!

| | |
|---|---|
| 4 | 4 |
| 6 | 5 |

Total =
200!!

| | |
|---|---|
| 4 | 3 |
| 7 | 5 |

Total =
200!!

| | |
|---|---|
| 4 | 2 |
| 8 | 5 |

Total =
200!!

| | |
|---|---|
| 4 | 1 |
| 9 | 5 |

Total =
200!!

| | |
|---|---|
| 3 | 5 |
| 7 | 4 |

Total: 200!!

| | |
|---|---|
| 6 | 1 |
| 5 | 7 |

Total: 200!!

| | |
|---|---|
| 2 | 6 |
| 8 | 3 |

Total: 200!!

The way to find a combination that makes 200 exactly is this:

First things first, here are some facts you need to know:

The numbers in the bottom left and top right squares are both used once for units and once for tens. The number in the bottom right square is used twice for units, and the top left square is used twice for tens.

This means that the top right, bottom left and two lots of the bottom right square must add up to 20. Take this one for example:

| | |
|---|---|
| 6 | 1 |
|---|---|

| | |
|---|---|
| 5 | 7 |
|---|---|

$7+7+1+5=20$, which is the calculation I said earlier. The next thing you need to do is make sure the bottom left, top right and two lots of the top left add up to 18 **NOT** 20, because you have to remember you have two carried over from the units calculation. $6+6+1+5=18$, so you know that worked. just to check your answer:

$$65+61+17+57= \underline{200!!}$$

Wow - excellent reasoning here Thea and you've explained it really clearly! I'm going to put it on the Stream page to see what the others think of it. Great work! 👍 😄