

Four 4's

Adapted from youcubed WIM Tasks
<https://www.youcubed.org/wim/four-4s-3-4/>
<https://www.youcubed.org/wim/four-4s-5-cc/>



Slide-deck created and shared
by Lori Fury

Mindset Video

Please watch this video: <https://www.youcubed.org/wim/the-importance-of-struggle-short-version/>

Four 4's

We are going to try to find every number from 1 to 20 using only four 4's.

All four 4's have to be used each time.

Any operation can be used.

For example: We can get 1 = $\frac{4}{4} + 4 - 4$

Write as many solutions as you can think for each number

1=

9=

17=

10=

2=

11=

18=

3=

12=

19=

4=

13=

20=

5=

14=

6=

15=

7=

Extensions

- Can you continue using Four 4's to find numbers greater than 20?
- Make a number challenge of your own that is similar to Four 4's
- Can you use Four 4's to make negative numbers?
- How many numbers can you make with Five 5's?

Debrief

With the whole class, ask how you were able to practice the “importance of struggle” from the video we watched.

What did students like about this activity?

What parts were challenging?

How did they grow their brain during this activity?

