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Placing Chips

Adapted from youcubed WIM Task

https://www.youcubed.org/wim/placing-chips-1-2/

Slide-deck created and shared by Lori Fury

Mindset Video

Please watch this video:https://www.youcubed.org/wim/speed-is-not-important/

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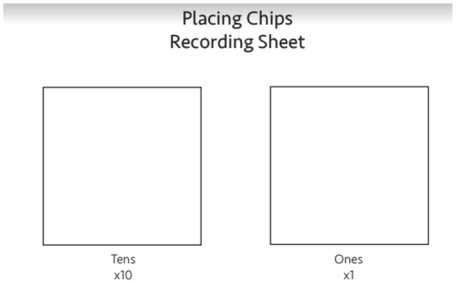
Make Tens and Ones with Chips (Counters)

Each number we make must place at least 1 chip in the tens and 1 chip in the ones place. Also, we must place all of our chips we have to make a number.



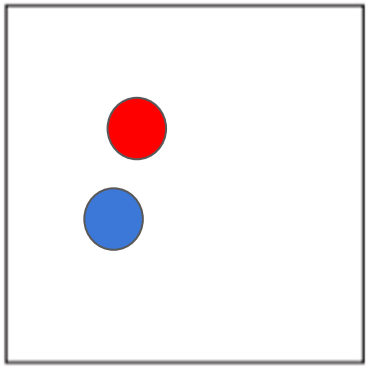
Tens	Ones	Number

For Example (4 Chips):

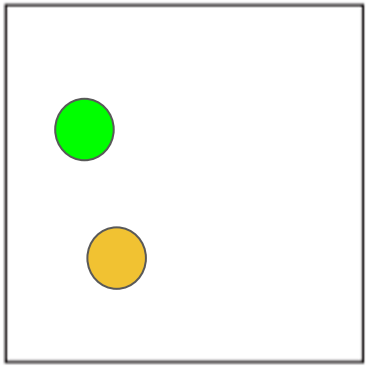
What number is shown?

How do you know?

Placing Chips Recording Sheet



Tens
x10



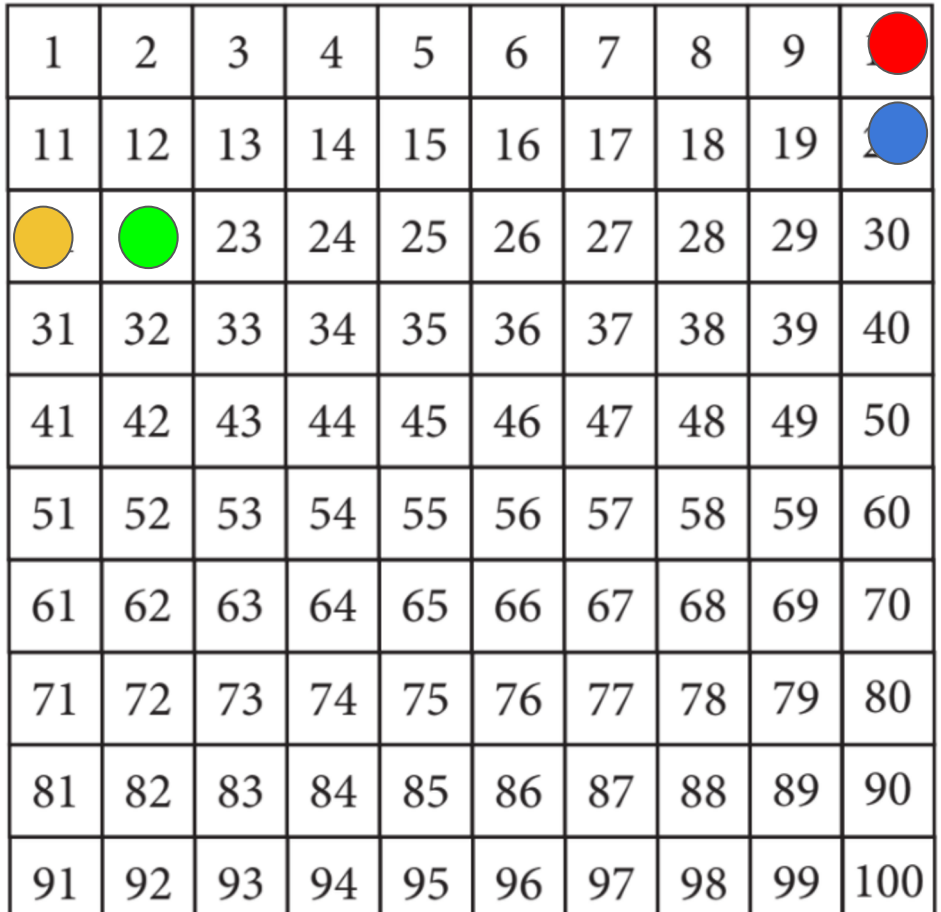
Ones
x1

Tens	Ones	Number
2	2	22

Show on the hundred chart

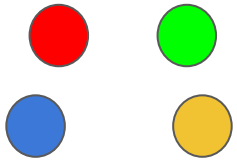
The chips on the hundred chart show 10 for the red chip, and another 10 for the blue chip. That puts us at 20. Then, a 1 for the yellow chip and another 1 for the green chip. That puts us at 22.

This shows 10 + 10 + 1 + 1 = 22.



1	2	3	4	5	6	7	8	9	
11	12	13	14	15	16	17	18	19	
		23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Your turn!



Make different numbers using **4** chips.
Remember you must use all 4 chips and there must be at least 1 chip in the tens place and at least one chip in the ones place.

Make as many numbers as you can!

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Tens x10	Ones x1

Tens	Ones	Number

What numbers have we made? (4 Chips)

Let's record all of the numbers we have been able to make by covering numbers on the hundred chart.

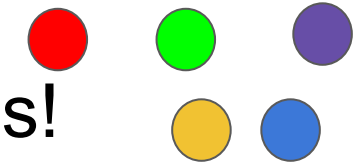
What do you notice?

What do you wonder?

What patterns are you seeing?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21		23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

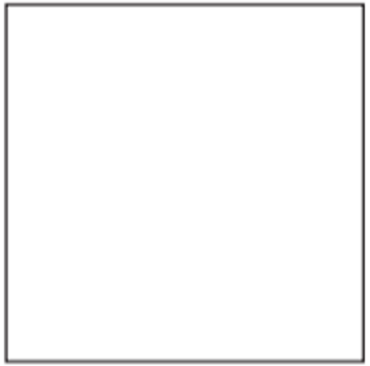
Try with 5 chips!



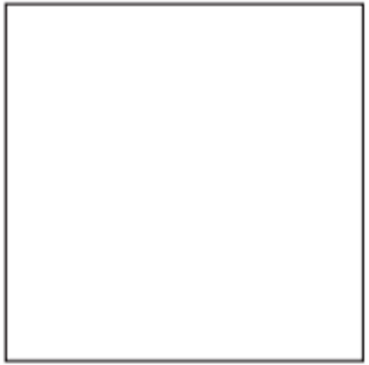
Make different numbers using **5** chips.
Remember you must use all 5 chips and there must be at least 1 chip in the tens place and at least one chip in the ones place.

Make as many numbers as you can!

Placing Chips Recording Sheet



Tens
x10



Ones
x1

Tens	Ones	Number

What numbers have we made? (5 Chips)

Let's record all of the numbers we have been able to make by covering numbers on the hundred chart.

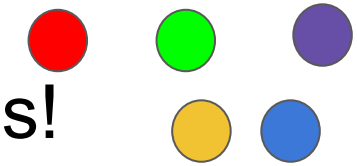
What do you notice?

What do you wonder?

What patterns are you seeing?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Try with ? chips!



Make different numbers using **a specific number of** chips. Remember you must use all of the chips and there must be at least 1 chip in the tens place and at least one chip in the ones place.

Make as many numbers as you can!

Placing Chips Recording Sheet

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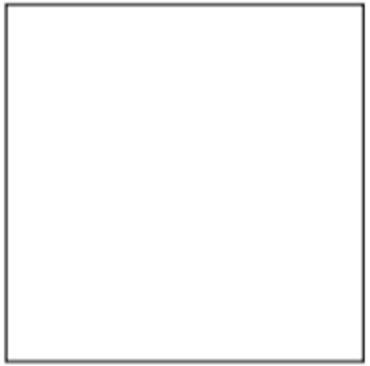
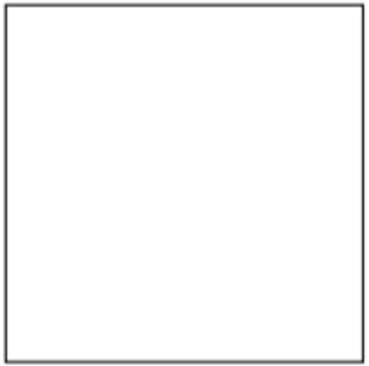


Tens
x10



Ones
x1

Tens	Ones	Number

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Share with the class: What numbers have we made?

What do you notice?

What do you wonder?

What patterns are you seeing?

What do you think would happen with 10 chips? How do you know?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

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Extensions

How many different numbers can you find using 15 chips?

What happens if you take away one of the rules of the game?

What happens if you do not have any rules?

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Debrief

With the whole class, ask how you were able to practice the message 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?