

Hundred Chart Hunt

Source: Tim Erickson, *Get It Together: Math Problems for Groups, Grades 4-12*. Berkeley, CA: Lawrence Hall of Science, 1989.

Materials: Hundred chart, 100 counters, clue cards (attached) reproduced for 4 teams of 6

Students will work in groups of 6.

Preparation: Divide the class into groups of 6. Distribute to each group a hundred chart, 100 counters, and an envelope with a set of clue cards.

Workstation Instructions:

The point of the activity is to use the clue cards to figure out each the secret numbers for Tim, Meg, Keisha, and Paul.

Version 1: First, try to figure out Tim's number. Give one clue card for Tim's number to each person. Each person reads their clue aloud to the group.

The group should work together to place counters over the numbers on the hundred chart that do not follow the clue. For example, if the clue card says "Tim's number is a multiple of three" then the group works together to cover all of the numbers on the hundred chart that are not multiples of three.

After all six clues have been read there should only be one number left uncovered. That is Tim's secret number.

Version 2: Give a hundred chart to each person in the group. As the clues are read, each person works individually to cover their hundred chart with counters and to find the secret number.

Hundred Chart

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

Meg's Number

The sum of the digits of Meg's number is greater than ten.

Help your group find Meg's number on the Hundred Chart!

Meg's Number -29

The difference between the two digits of Meg's number is greater than three.

Help your group find Meg's number on the Hundred Chart!

Meg's Number

Meg's number is a multiple of seven.

Help your group find Meg's number on the Hundred Chart!

Meg's Number

The first digit of Meg's number is larger than the second.

Help your group find Meg's number on the Hundred Chart!

Meg's Number

Meg's number is not odd.

Help your group find Meg's number on the Hundred Chart!

Meg's Number

Both digits of Meg's number are even.

Help your group find Meg's number on the Hundred Chart!

Keisha's Number

Keisha's number is a multiple of three.

Help your group find Keisha's number on the Hundred Chart!

Keisha's Number

The sum of the digits of Keisha's number is even.

Help your group find Keisha's number on the Hundred Chart!

Keisha's Number

Keisha's number is the *largest* number on the chart that fits all of the other clues.

Help your group find Keisha's number on the Hundred Chart!

Keisha's Number

Keisha's number is a multiple of five.

Help your group find Keisha's number on the Hundred Chart!

Keisha's Number

When you multiply the digits of Keisha's number together, you get an odd number.

Help your group find Keisha's number on the Hundred Chart!

Keisha's Number

Keisha's number is larger than 50.

Help your group find Keisha's number on the Hundred Chart!

Paul's Number

Paul's number is not located on an edge or a corner.

Help your group find Paul's number on the Hundred Chart!

Paul's Number^{NS-3}

Paul's number is not an even number.

Help your group find Paul's number on the Hundred Chart!

Paul's Number

The difference of the digits in Paul's number is three.

Help your group find Paul's number on the Hundred Chart!

Paul's Number

Paul's number is not a multiple of three, five, or seven.

Help your group find Paul's number on the Hundred Chart!

Paul's Number

Paul's number is less than fifty.

Help your group find Paul's number on the Hundred Chart!

Paul's Number

The sum of the digits in Paul's number is 11.

Help your group find Paul's number on the Hundred Chart!

Tim's Number

Tim's number is a multiple of three.

Help your group find Tim's number on the Hundred Chart!

Tim's Number

Tim's number is a multiple of five.

Help your group find Tim's number on the Hundred Chart!

Tim's Number

If you add the digits of Tim's number, you get an odd number.

Help your group find Tim's number on the Hundred Chart!

Tim's Number

Tim's number is odd.

Help your group find Tim's number on the Hundred Chart!

Tim's Number

If you multiply the digits of Tim's number together, you get an even number.

Help your group find Tim's number on the Hundred Chart!

Tim's Number

Tim's number is near the center of the chart.

Help your group find Tim's number on the Hundred Chart!