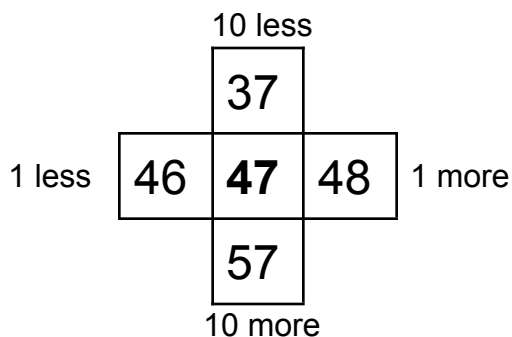


Parent Information: Number Patterns & Equations (2nd Grade)

Second grade students learn about even and odd numbers up to 40. They also find 10 more, 10 less, 100 more, and 100 less than a given number. Students use equations to represent and solve problems.

You can find numbers that are 1 more, 1 less, 10 more, and 10 less using a 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

You can find numbers that are 10 more, 10 less, 100 more and 100 less by using place value (adding or subtracting one hundred) or with addition or subtraction.

458

There are 5 tens in this number.

One more ten is 6 tens, so 468 is 10 more than 458. $458 + 10 = 468$

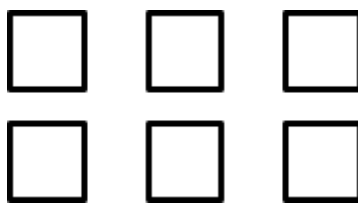
One less ten is 4 tens, so 448 is 10 less than 458. $458 - 10 = 448$

There are 4 hundreds in this number.

One more hundred is 5 hundreds, so 558 is 100 more than 458. $458 + 100 = 558$

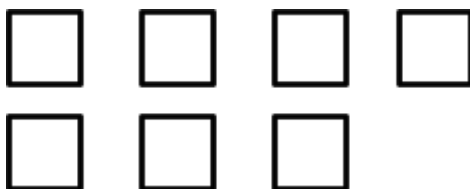
One less hundred is 3 hundreds, so 358 is 100 less than 458. $458 - 100 = 358$

Even Number: A number that can be divided into groups of 2 with no numbers let over.



Six is an even number because six can be divided into 3 groups of 2 with nothing left.

Odd Number: A number that can not be divided into groups of 2.



Seven is an odd number because when you divide it into groups of 2 there is one left.

Word problems can be represented by equations.

There are 6 birds in a tree. 2 more birds join them. How many birds are in the tree now?

$$\begin{array}{ccccc} \longrightarrow & 6 & + & 2 & = & \underline{\hspace{1cm}} \\ \text{Birds in} & & & \nwarrow & & \nearrow \\ \text{the tree.} & & & \text{Birds that} & & \text{Birds in} \\ & & & \text{joined.} & & \text{the tree} \\ & & & & & \text{now.} \end{array}$$

The unknown number can be the end result, or it can be another part of the problem.

There are 6 birds in a tree. Some more birds join them. Now there are 8 birds in the tree. How many birds joined them?

$$\begin{array}{ccccc} \longrightarrow & 6 & + & \underline{\hspace{1cm}} & = & 8 \\ \text{Birds in} & & & \nwarrow & & \nearrow \\ \text{the tree.} & & & \text{Birds that} & & \text{Birds in} \\ & & & \text{joined.} & & \text{the tree} \\ & & & & & \text{now.} \end{array}$$

There are some birds in a tree. 2 more birds join them. Now there are 8 birds in the tree. How many birds were in the tree at the beginning?

The diagram shows the equation $\text{Birds in the tree.} + 2 = 8$. An arrow points from the text "Birds in the tree." to the blank space before the plus sign. Another arrow points from the text "Birds that joined." to the number 2. A third arrow points from the text "Birds in the tree now." to the number 8.

$$\text{Birds in the tree.} + 2 = 8$$

Birds in the tree now.

Birds that joined.