

Lesson 8 – 10 More and 10 Less

NC Objective:

Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and tens

Resources needed:

Differentiated worksheets
Teaching Slides

Vocabulary:

Add, subtract, digit, tens, ones, 10 more, 10 less, pattern, columns

Teaching needs to focus on the importance of the tens digit. Using a 100 square, explore with the children what happens to the numbers in the columns.

Draw attention to the idea that the tens digit changes while ones digit remains the same. Children will need to see how the number changes with concrete materials before moving onto more abstract ideas.

Arithmetic

Copy and solve the questions in your book.

10 more than	10 less than	10 more than
25 + 10 =	17 - 10 =	9 + 10 =
25 - 10 =	29 - 10 =	10 + 10 =
15 + 10 =	56 + 10 =	10 + 10 =
6 + 10 =	10 + 33 =	78 + 10 =
1 + 10 =	89 - 10 =	10 - 12 =
18 - 10 =	10 + 2 =	10 - 4 =
10 + 10 =	13 - 10 =	10 + 100 =
26 - 10 =	76 + 10 =	10 + 75 =
13 - 10 =	10 + 8 =	10 + 62 =
27 - 10 =	61 - 10 =	10 + 26 =

Key Questions:

What's the same? What's different?

When you look at a hundred square, what do you notice about the numbers that are ten more and ten less than 27?

★ Working Towards

10 More and 10 Less

Colour in the number that is 10 more and 10 less than 56.

Colour in the number that is 10 more and 10 less than 17.

Colour in the number that is 10 more and 10 less than 72.

Circle the number that is 10 more and 10 less than 28.

Circle the number that is 10 more and 10 less than 83.

Circle the number that is 10 more and 10 less than 65.

Complete the drawings for the table.

10 less	10 more
34	66

Continue the number tracks.

0	10	20				31	41	51			
26	36					18	28	38			

What have you noticed about finding 10 more and 10 less? Can you explain?

★★ Working Within

10 More and 10 Less

Colour in the number that is 10 more and 10 less than 56.

Colour in the number that is 10 more and 10 less than 17.

Colour in the number that is 10 more and 10 less than 72.

Circle the number that is 10 more and 10 less than 28.

Circle the number that is 10 more and 10 less than 83.

Circle the number that is 10 more and 10 less than 65.

Complete the drawings for the table.

10 less	10 more
45	77

Continue the number tracks.

37	47	57				62	72	82			
		80	90			10	20	30			

What have you noticed about finding 10 more and 10 less? Can you explain?

★★★ Greater Depth

10 More and 10 Less

Colour in the number that is 10 more and 10 less than 56.

Colour in the number that is 10 more and 10 less than 17.

Colour in the number that is 10 more and 10 less than 72.

Circle the number that is 10 more and 10 less than 28.

Circle the number that is 10 more and 10 less than 83.

Circle the number that is 10 more and 10 less than 65.

Complete the drawings for the table.

10 less	10 more
54	

Continue the number tracks.

57	37					72	52
60	40					33	13

What have you noticed about finding 10 more and 10 less? Can you explain with an example?

Children on this sheet will find ten more and ten less than the given number represented pictorially and as digits.

Children on this sheet will complete more parts of the 10 less and 10 more table. They have missing parts on the number track.

Children on this sheet will solve problems involving 10 more or 10 less. They have more missing parts than the previous sheet.

Reasoning & Problem Solving

10 More and 10 Less

Reasoning & Problem Solving

Leanna says, "I know that 10 less than 48 is 38. I only have to look at the tens digit."

Is she correct? Explain your reasoning.

SALE

22p 33p 41p 27p

The cost of each piece of fruit is reduced by 10p. What are the new prices?

Rose is counting backwards in tens. She says 50, 40, 30, 20, 10, and then stops. What two numbers come next and why?

Class 3 gave one of their full packets of pencils away. How many pencils do they have left? Explain your reasoning.

Children continue working on adding and subtracting 10 by solving reasoning tasks.



Colour in the number that is 10 more and 10 less than 56.

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

Circle the number that is 10 more and 10 less than 28.

Colour in the number that is 10 more and 10 less than 17.

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

Circle the number that is 10 more and 10 less than 83.

Colour in the number that is 10 more and 10 less than 72.

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

Circle the number that is 10 more and 10 less than 65.

Complete the drawings for the table.

10 less		10 more
	34	

10 less		10 more
	66	

Continue the number tracks.

0	10	20				
---	----	----	--	--	--	--

31	41	51				
----	----	----	--	--	--	--

26	36					
----	----	--	--	--	--	--

18	28	38				
----	----	----	--	--	--	--

What have you noticed about finding 10 more and 10 less? Can you explain?



Colour in the number that is 10 more and 10 less than 56.

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

Circle the number that is 10 more and 10 less than 28.

Colour in the number that is 10 more and 10 less than 17.

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

Circle the number that is 10 more and 10 less than 83.

Colour in the number that is 10 more and 10 less than 72.

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

Circle the number that is 10 more and 10 less than 65.

Complete the drawings for the table.

10 less		10 more
24	34	44

10 less		10 more
56	66	76

Continue the number tracks.

0	10	20	30	40	50	60
---	----	----	----	----	----	----

31	41	51	61	71	81	91
----	----	----	----	----	----	----

26	36	46	56	66	76	86
----	----	----	----	----	----	----

18	28	38	48	58	68	78
----	----	----	----	----	----	----

What have you noticed about finding 10 more and 10 less? Can you explain?

The tens column of the number goes up by 1 if you add 10 and down by 1 if you subtract 10. The ones do not change.



Colour in the number that is 10 more and 10 less than 56.

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

Circle the number that is 10 more and 10 less than 28.

Colour in the number that is 10 more and 10 less than 17.

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

Circle the number that is 10 more and 10 less than 83.

Colour in the number that is 10 more and 10 less than 72.

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

Circle the number that is 10 more and 10 less than 65.

Complete the drawings for the table.

10 less		10 more
	45	

10 less		10 more
		77

Continue the number tracks.

	37	47	57			
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			62	72	82	
--	--	--	----	----	----	--

				80	90	
--	--	--	--	----	----	--

	10	20	30			
--	----	----	----	--	--	--

What have you noticed about finding 10 more and 10 less? Can you explain?



Colour in the number that is 10 more and 10 less than 56.

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

Circle the number that is 10 more and 10 less than 28.

Colour in the number that is 10 more and 10 less than 17.

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

Circle the number that is 10 more and 10 less than 83.

Colour in the number that is 10 more and 10 less than 72.

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

Circle the number that is 10 more and 10 less than 65.

Complete the drawings for the table.

10 less		10 more
35	45	55

10 less		10 more
57	67	77

Continue the number tracks.

27	37	47	57	67	77	87
----	----	----	----	----	----	----

32	42	52	62	72	82	92
----	----	----	----	----	----	----

40	50	60	70	80	90	100
----	----	----	----	----	----	-----

0	10	20	30	40	50	60
---	----	----	----	----	----	----

What have you noticed about finding 10 more and 10 less? Can you explain?

The tens column of the number goes up by 1 if you add 10 and down by 1 if you subtract 10. The ones do not change.



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

The number I am thinking of is the sum of 10 more than 6 and 10 less than 47.
Colour in my number.

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

The number I am thinking of is the sum of 10 less than 87 and 10 more than 1.
Colour in my number.

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

The number I am thinking of is the sum of ten less than forty-eight and ten more than nineteen.
Colour in my number.

Complete the table.

10 less		10 more
		54

10 less		10 more

Complete the number tracks.

	57		37			
--	----	--	----	--	--	--

			72		52	
--	--	--	----	--	----	--

60		40				
----	--	----	--	--	--	--

			33		13	
--	--	--	----	--	----	--

What have you noticed about finding 10 more and 10 less? Can you explain with an example?



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

The number I am thinking of is the sum of 10 more than 6 and 10 less than 47.

Colour in my number.

$$16 + 37 = 53$$

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

The number I am thinking of is the sum of 10 less than 87 and 10 more than 1.

Colour in my number.

$$77 + 11 = 88$$

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

The number I am thinking of is the sum of ten less than forty-eight and ten more than nineteen.

Colour in my number.

$$38 + 29 = 67$$

Complete the table.

10 less		10 more
34	44	54

10 less		10 more
56	66	76

Complete the number tracks.

67	57	47	37	27	17	7
----	----	----	----	----	----	---

102	92	82	72	62	52	42
-----	----	----	----	----	----	----

60	50	40	30	20	10	0
----	----	----	----	----	----	---

63	53	43	33	23	13	3
----	----	----	----	----	----	---

What have you noticed about finding 10 more and 10 less? Can you explain with an example?

The tens column of the number goes up by 1 if you add 10 and down by 1 if you subtract 10. The ones do not change. For example- 10 more than 23 is 33. 10 less than 23 is 13.

Arithmetic

Copy and solve the questions in your book.

 Use equipment to help you.	 	  
$25 + 10 =$	$17 + 10 =$	$\underline{\hspace{2cm}} + 8 = 18$
$25 - 10 =$	$29 - 10 =$	$\underline{\hspace{2cm}} - 10 = 89$
$15 + 10 =$	$56 + 10 =$	$10 + \underline{\hspace{2cm}} = 41$
$6 + 10 =$	$10 + 33 =$	$78 + \underline{\hspace{2cm}} = 88$
$1 + 10 =$	$89 - 10 =$	$\underline{\hspace{2cm}} - 10 = 12$
$18 - 10 =$	$10 + 2 =$	$\underline{\hspace{2cm}} - 10 = 9$
$10 + 10 =$	$13 - 10 =$	$\underline{\hspace{2cm}} + 10 = 100$
$29 - 10 =$	$76 + 10 =$	$\underline{\hspace{2cm}} + 10 = 75$
$13 - 10 =$	$10 + 8 =$	$10 + \underline{\hspace{2cm}} = 62$
$27 - 10 =$	$61 - 10 =$	$\underline{\hspace{2cm}} + 10 = 26$

Arithmetic

Copy and solve the questions in your book.

★ Use equipment to help you.	★★	★★★
$25 + 10 = 35$	$17 + 10 = 27$	$\underline{10} + 8 = 18$
$25 - 10 = 15$	$29 - 10 = 19$	$\underline{99} - 10 = 89$
$15 + 10 = 25$	$56 + 10 = 66$	$10 + \underline{31} = 41$
$6 + 10 = 16$	$10 + 33 = 43$	$78 + \underline{10} = 88$
$1 + 10 = 11$	$89 - 10 = 79$	$\underline{22} - 10 = 12$
$18 - 10 = 8$	$10 + 2 = 12$	$\underline{29} - 10 = 9$
$10 + 10 = 20$	$13 - 10 = 3$	$\underline{90} + 10 = 100$
$29 - 10 = 19$	$76 + 10 = 86$	$\underline{65} + 10 = 75$
$13 - 10 = 3$	$10 + 8 = 18$	$10 + \underline{52} = 62$
$27 - 10 = 17$	$61 - 10 = 51$	$\underline{16} + 10 = 26$



Leanna says,

I know that 10 less than
68 is 58.
I only have to look at the
tens digit.

Is she correct?
Explain your reasons.

SALE



22p



33p



41p



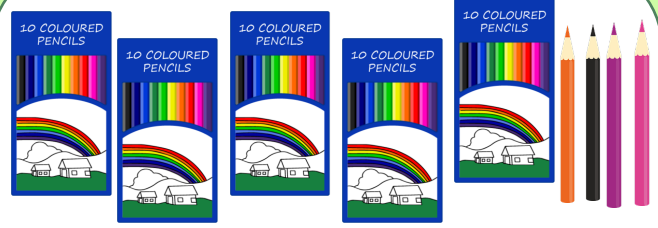
27p

The cost of each piece of fruit
is reduced by 10p.
What are the new prices?

Rosie is counting backwards in tens.

She says
fifty-seven, forty-seven, thirty-seven
and then stops.

What three numbers come next and why?



Class 3 gives one of their full packets of pencils
away.

How many pencils do they have left?
Explain your reasoning.



Leanna says,

I know that 10 less than
68 is 58.
I only have to look at the
tens digit.

Is she correct?
Explain your reasons.

SALE



22p



33p



41p



27p

The cost of each piece of fruit
is reduced by 10 p.
What are the new prices?

Rosie is counting backwards in tens.

She says
fifty-seven, forty-seven, thirty-seven
and then stops.

What three numbers come next and why?



Class 3 gives one of their full packets of pencils
away.

How many pencils do they have left?
Explain your reasoning.



Leanna says,

I know that 10 less than 68 is 58.
I only have to look at the tens digit.

Is she correct?

Explain your reasons.

Yes, because when you subtract ten you aren't subtracting ones.

SALE



22p
12p



33p
23p



41p
31p



27p
17p

The cost of each piece of fruit is reduced by 10p.

What are the new prices?

Rosie is counting backwards in tens.

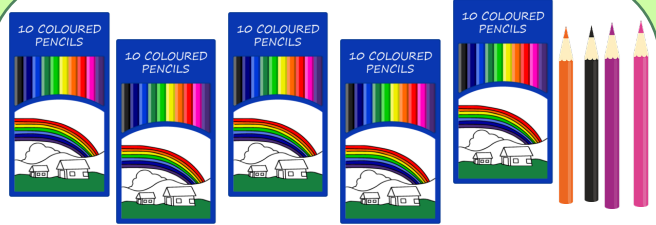
She says

fifty-seven, forty-seven, thirty-seven and then stops.

What three numbers come next and why?

27, 17 and 7.

Take away one ten from the previous number.



Class 3 gives one of their full packets of pencils away. How many pencils do they have left?

Explain your reasoning.

44, they will have 4 full packages left and 4 pencils which represent 4 ones.



Leanna says,

I know that 10 less than 68 is 58.
I only have to look at the tens digit.

Is she correct?

Explain your reasons.

Yes, because when you subtract ten you aren't subtracting ones.

SALE



22p
12p



33p
23p



41p
31p



27p
17p

The cost of each piece of fruit is reduced by 10 p.

What are the new prices?

Rosie is counting backwards in tens.

She says

fifty-seven, forty-seven, thirty-seven and then stops.

What three numbers come next and why?

27, 17 and 7.

Take away one ten from the previous number.



Class 3 gives one of their full packets of pencils away. How many pencils do they have left?

Explain your reasoning.

44, they will have 4 full packages left and 4 pencils which represent 4 ones.