

North Penn School District
Elementary Math Parent Letter

Grade 1

Unit 4 -- Chapter 8: Two-Digit Addition and Subtraction

Examples from each lesson

Lesson 8.1

**Add and Subtract
within 20**

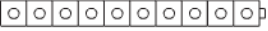
Add and subtract within 20.


You can use strategies to add or subtract.

- count on
- doubles
- doubles plus one
- count back
- related facts
- doubles minus one

What is $5 + 6$?


I can use doubles plus one.



 $5 + 5 = 10$


So, $5 + 6 = \underline{11}$.

What is $12 - 4$?

I can use a related fact.


 $8 + 4 = 12$



So, $12 - 4 = \underline{8}$.

Lesson 8.2


Add Tens


Use place value understanding and properties of operations to add and subtract.

What is $10 + 30$?



I ten + 3 tens = 4 tens
 $10 + 30 = \underline{40}$

Use .
Start with 1 ten.
Add 3 more tens.
Draw the tens.




More information on this strategy is available on Animated Math Model #35.

Lesson 8.3

Subtract Tens

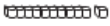
Use place value understanding and properties of operations to add and subtract.


What is $60 - 40$?



6 tens $-$ 4 tens = 2 tens

$60 - 40 = \underline{20}$

Use .
Show 6 tens.
Take away 4 tens.
2 tens are left.



More information on this strategy is available on Animated Math Model #36.

Lesson 8.4

Use a Hundred Chart to Add

Use place value understanding and properties of operations to add and subtract.

You can count on to add on 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

Start at 21. Move right to count on 3 ones. Count

22, 23, 24

$21 + 3 = \underline{24}$

Start at 68. Move down to count on 3 tens. Count

78, 88, 98

$68 + 30 = \underline{98}$

Lesson 8.5

Use Models to Add

Use place value understanding and properties of operations to add and subtract.

Add ones to a two-digit number.

THINK
Draw 2 tens
and 4 ones.

$$21 + 3 = \underline{24}$$

Add tens to a two-digit number.

THINK

$$21 + 30 = \underline{51}$$

More information on this strategy is available on Animated Math Model #37.

Lesson 8.6

Make Ten to Add

Use place value understanding and properties of operations to add and subtract.

What is $17 + 5$?

Step 1

Use \bigcirc .

Show 17.

Use \bigcirc .

Show 5.

Step 2

Make a ten.

Step 3 Add.

$$20 + 2 = \underline{22}$$

So, $17 + 5 = \underline{22}$.

More information on this strategy is available on Animated Math Models #37, 38.

Lesson 8.7

Use Place Value to Add

Use place value understanding and properties of operations to add and subtract.

You can use tens and ones to help you add.

Add 25 and 22.

Show 25. →

Tens	Ones
●●	●●●●●
●●	●●

Show 22. →

Tens	Ones
●●	●●●●●
●●	●●

How many tens? 2 tens + 2 tens = 4 tens

How many ones? 5 ones + 2 ones = 7 ones

$\begin{array}{r} \underline{4} \text{ tens} + \underline{7} \text{ ones} \\ \underline{40} + \underline{7} = \underline{47} \end{array}$	$\begin{array}{r} 25 \\ +22 \\ \hline 47 \end{array}$
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More information on this strategy is available on Animated Math Models #37, 38.

Lesson 8.8

Problem Solving • Addition Word Problems

Use place value understanding and properties of operations to add and subtract.

Morgan plants 17 seeds.

Amy plants 8 seeds.

How many seeds do they plant?

Unlock the Problem

<p>What do I need to find?</p> <p>how many <u>seeds</u> they plant</p>	<p>What information do I need to use?</p> <p>Morgan plants <u>17</u> seeds.</p> <p>Amy plants <u>8</u> seeds.</p>																
<p>Show how to solve the problem.</p> <div style="display: flex; align-items: center; gap: 20px;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td>○</td><td>○</td></tr> <tr><td>○</td><td>○</td></tr> <tr><td>○</td><td>○</td></tr> <tr><td>○</td><td>○</td></tr> <tr><td>○</td><td>○</td></tr> <tr><td>○</td><td>○</td></tr> <tr><td>○</td><td>○</td></tr> <tr><td>○</td><td>○</td></tr> </table> <div style="text-align: left;"> <p>count on ones</p> <p>make a ten</p> <p>add tens and ones</p> </div> </div> <p><u> </u> seeds.</p>		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
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Lesson 8.9

Practice Addition and Subtraction

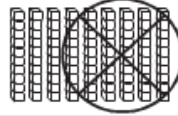
Use place value understanding and properties of operations to add and subtract.

You can use models to add and subtract.

$$13 + 5 = \underline{18}$$



$$90 - 60 = \underline{30}$$



Vocabulary

ones – the value of a digit in the ones position on a place value chart

ten – a group of ten ones