North Penn School District

Elementary Math Parent Letter

Grade 1

Unit 2-A -- Chapter 3: Subtraction Concepts

Examples from each lesson

Lesson 3.1

Algebra · Add in Any Order

Understand and apply properties of operations and the relationship between addition and subtraction.

You can change the order of the addends. The sum is the same.

$$5 + 2 = 7$$

$$2 + 5 = 7$$

More information on this strategy is available on Animated Math Model #12.

Lesson 3.2

Count On

Add and subtract within 20.

You can count on to find $4 + 3$. Start with the greater addend. Then count on. Write the sum.

To add 3, count on 3.

4   5   6   7

$$4 + 3 = 7$$

More information on this strategy is available on Animated Math Model #13.

Lesson 3.3

Add Doubles

The addends are the same in a doubles fact.

$\underline{3} + \underline{3} = 6$
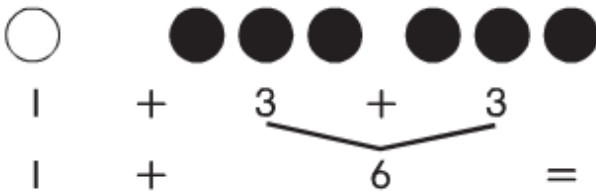
More information on this strategy is available on Animated Math Model #14.

Lesson 3.4

Use Doubles to Add

Use a doubles fact to solve $4 + 3$.
Break apart 4 into $1 + 3$.

○ ● ● ● ● ● ●

1 + 3 + 3

THINK
$3 + 3 = 6$.
1 more than 6 is 7.

1 + 6 = 7

So, $4 + 3 = \underline{7}$.

More information on this strategy is available on Animated Math Models #15, 16.
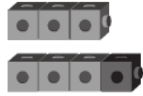
Lesson 3.5

Doubles Plus 1 and Doubles Minus 1

Add and subtract within 20.

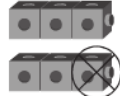You can use doubles plus one facts and doubles minus one to add.

Use doubles fact 3 + 3 = 6.

doubles plus one

doubles minus one

$3 + 4 = \underline{7}$ $3 + 2 = \underline{5}$

More information on this strategy is available on Animated Math Model #16.

Lesson 3.6
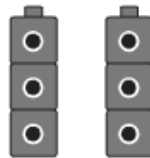
Practice the Strategies

Add and subtract within 20.

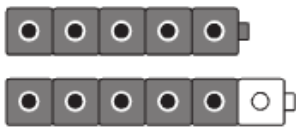You can use different addition strategies to find sums.
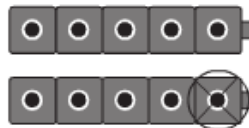
Count On

6 7 8

$6 + 2 = \underline{8}$

Doubles

$3 + 3 = \underline{6}$

Doubles Plus 1

$5 + 6 = \underline{11}$

Doubles Minus 1

$5 + 4 = \underline{9}$

More information on this strategy is available on Animated Math Models #13, 14, 15, and 16.

Lesson 3.7

Add 10 and More

Add and subtract within 20.

You can use counters and a ten frame to add a number to 10.

Find $10 + 4$.

$$\begin{array}{r} 10 \\ + \ 4 \\ \hline 14 \end{array}$$

Lesson 3.8

Make a 10 to Add

Add and subtract within 20.

Show $8 + 5$ with counters and a ten frame.

Use ◯.

Make a ten. Add.

$$\begin{array}{r} 10 \\ + \ 3 \\ \hline 13 \end{array}$$

So, $8 + 5 = \underline{13}$.

More information on this strategy is available on Animated Math Model #17.

Lesson 3.9

Use Make a 10 to Add

Add and subtract within 20.

What is $9 + 5$? Make a 10 to add.

Use ◯ and a ten frame. Show the addends.

Show the greater addend in the ten frame.

Make a 10. Add.

So, $9 + 5 = \underline{14}$.

More information on this strategy is available on Animated Math Model #17.

Lesson 3.10

Algebra • Add 3 Numbers

Understand and apply properties of operations and the relationship between addition and subtraction.

You can add numbers in any order.

$3 + 4 + 1 = 8$

$3 + 4 + 1 = 8$ $3 + 4 + 1 = 8$

$7 + 1 = 8$ $3 + 5 = 8$

More information on this strategy is available on Animated Math Model #18.

Lesson 3.11

Algebra • Add 3 Numbers

Understand and apply properties of operations and the relationship between addition and subtraction.

What strategies help you add 3 numbers?

4
4
$+6$
14

4
4
$+6$
14

$4 + 6$ make a 10.

$10 + 4 = 14$

$4 + 4 = 8$ is a doubles fact.

$8 + 6 = 14$
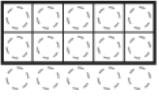
More information on this strategy is available on Animated Math Model #18.

Problem Solving •
Use Addition Strategies

Tory has 9 toys. Bob has 4 toys.
Joy has 2 toys. How many toys
do they have?

Unlock the Problem

What do I need to find?	What information do I need to use?
how many ~~toys~~ they have	Tory has _9_ toys. Bob has _4_ toys. Joy has _2_ toys.

Show how to solve the problem.

____ (+) ____ (+) ____ (=) ____

_____ toys

Vocabulary

Count on – to count forward from a given number

Doubles – an addition fact that includes two of the same number, such as 5 + 5

Doubles plus one – an addition fact with a double to add and then add one, such as 5 + 6

Doubles minus one – an addition fact with a double to add and then subtract one, such as 5 + 4

Make a ten – a strategy that teaches children to isolate a ten first to help them add numbers whose sum is greater than ten