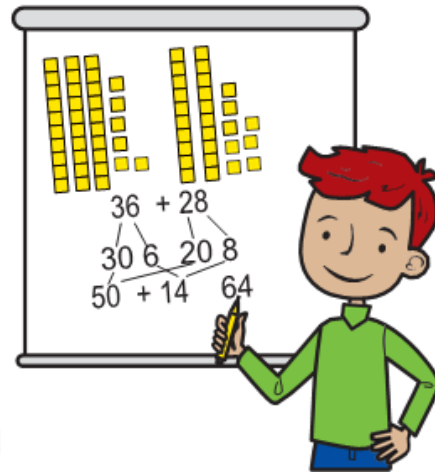## Fairfield Elementary Mathematics

Grade 3 Unit 1

Addition & Subtraction Patterns

In this unit your child will:

▌ Use efficient math strategies to build fluency with basic addition and subtraction facts

▌ Determine whether two expressions are equal

▌ Write equations to represent one step story problems

▌ Use strategies based on place value, properties of operations, or the relationship between addition and subtraction to fluently add and subtract within 100

Your child will learn and practice these skills by solving problems like those shown below. Keep this sheet for reference when you're helping with homework. Use the free Math Vocabulary Cards app for additional support: mathlearningcenter.org/apps

PROBLEM	COMMENTS

$35 + 9 = ?$	Using ten to think flexibly about numbers. Ten can be helpful in several ways:
	• By taking leaps of ten all at once and adjusting –
	    for example $35 + 9 = 35 + 10 - 1$
	• By moving to the next multiple of 10 – for example $35 + 9 = 35 + 5$ (to get to 40, the next multiple of 10) + 4 (this is also an example of getting to the next multiple of 10 by decomposing 9 into 5 and 4)
	• By using compensation to make a problem with 10 in it -
	    for example, $35 + 9 = 34 + 10$

Determine if the following equations are equivalent. $(9 + 3) + 7 = 9 + (3 + 7)$	They are equivalent because $12 + 7 = 9 + 10$ $19 = 19$

Identifying the unknown in varied problem structures.

Kevin had 14 video games. His mom gave him 4 more video games for his birthday. How many video games does he have now?
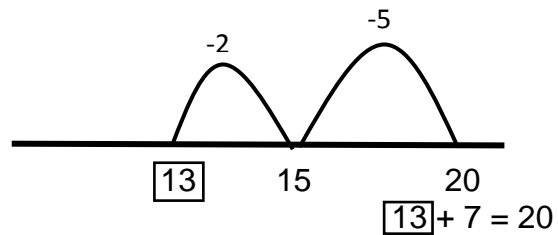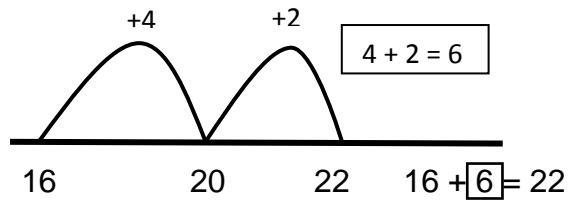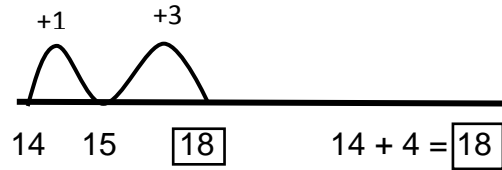
$$14 + 4 = \square$$

+1   +3

14   15   18   14 + 4 = 18

Kevin had 16 video games. His mother gave him some new video games for his birthday. Now he has 22 video games. How many did his mother give him?

$$16 + \square = 22$$

+4   +2   4 + 2 = 6

16   20   22   16 + 6 = 22

Kevin had some video games. His mother gave him 7 more video games for his birthday. Now he has 20 video games. How many did he have before his birthday?

$$\square + 7 = 20$$

-2   -5

13   15   20

13 + 7 = 20

FREQUENTLY ASKED QUESTIONS ABOUT UNIT 1

Q: Why do some of these activities look like what my child did in second grade?

A: This unit reviews mathematical concepts while introducing and establishing routines that will be used in third grade. Teachers assess students' skill level and plan future lessons based on this review. When students build addition and subtraction facts on the number rack and generalize their understanding of number relationships to problem solving situations with larger numbers, this contributes to their ability to compute fluently.

Q: How can I help my child and make homework a successful experience?

A: Homework assignments are sent home two or three times per week during the school year. Teachers may also send home Daily Practice pages for additional work with concepts and skills. Although your child is doing similar activities in class, she may need your help at home. Take time to ask her to explain the assignment to you. If she can describe the task clearly and confidently, she can probably complete the assignment independently. Your child has used several models and strategies to solve problems. Encourage her to use ways that make sense to her. Then, review the completed assignment and ask your child to explain her thinking about some of the problems.