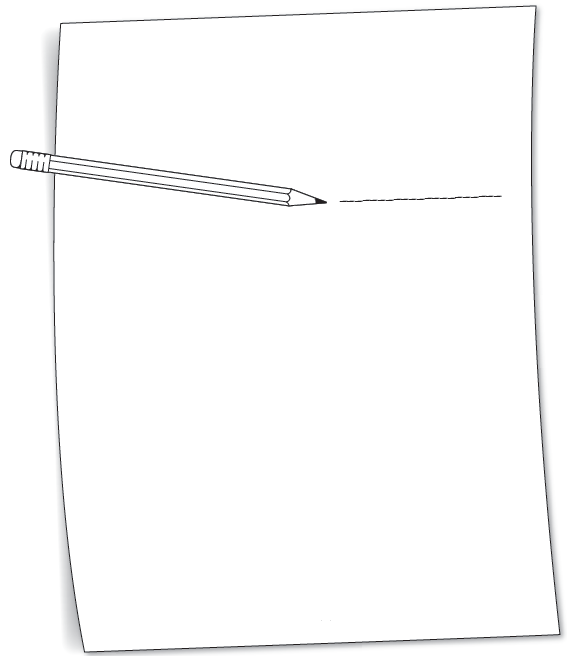
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**Family Letter**



**Vocabulary**

**Addition Property of Equality** If you add the same number to each side of an equation, the two sides remain equal.

**Division Property of Equality** If you divide each side of an equation by the same nonzero number, the two sides remain equal.

**equals sign** A symbol of equality, =.

**equation** A mathematical sentence showing two expressions are equal. An equation contains an equals sign, =.

**inverse operations** Operations which *undo* each other. For example, addition and subtraction are inverse operations.

**Multiplication Property of Equality** If you multiply each side of an equation by the same nonzero number, the two sides remain equal.

**solution** The value of a variable that makes an equation true. The solution of 12 = *x* + 7 is 5.

**solve** To replace a variable with a value that results in a true sentence.

**Subtraction Property of Equality** If you subtract the same number from each side of an equation, the two sides remain equal.

**Dear Parent or Guardian:**

Today we began Chapter 7 Equations. In this chapter, your student will learn how to write and solve addition, subtraction, multiplication, and division equations. They will then use those skills to solve two-step equations. Included in this letter are key vocabulary words and activities you can do with your student. If you have any questions or comments, feel free to contact me at school.

Sincerely,

**Course 1 · Chapter 7** Equations

• Tell riddles that use facts about the family, such as, “I’m thinking of a number. When the age of the youngest person here is subtracted from the number, the answer is 3. What is my number?” Members other than the person who told the riddle should all try to find the answer.

• Gather the family or friends to play a number game.

**Real-World Activity**

Practice writing equations to match situations on the scale. You can hide some coins with a foam cup to represent a variable.

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Practice placing coins on each side to keep the ruler balanced.

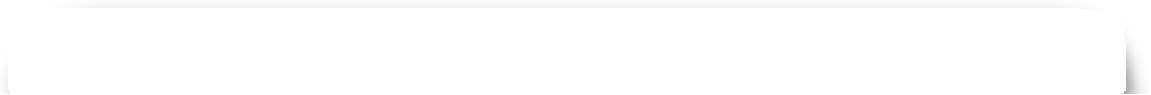
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Make a pan scale. Tape a piece of cardboard to each end of the ruler evenly. Place the ruler on a pencil at the middle   
of the ruler. Adjust the ruler on the pencil so the sides become balanced. Then tape the ruler to the pencil.

•

**Materials** pencil, ruler, cardboard, coins, foam cup

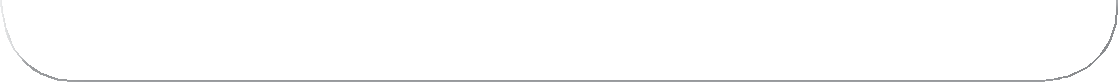
**Hands-On Activity**



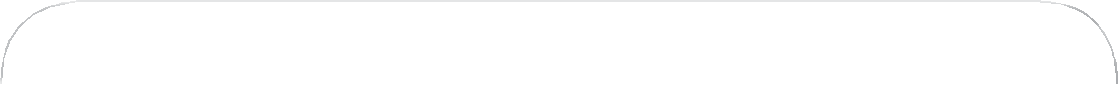




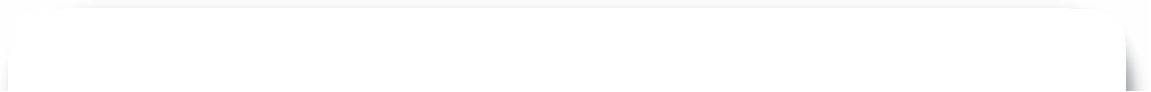








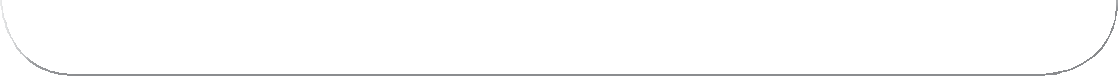




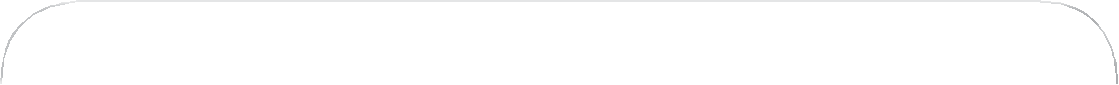














**Course 1** • **Chapter 7** Equations

NAME

**At-Home Activities**

PERIOD

DATE