

Grade 1	Lesson: 4-9 Thinking Addition to 12 to Subtract	Reference to English
Math Standard(s): 1.0A.4, 1.0A.6, & 1.0A.8		Domain: Operations and Algebraic Thinking
Content Objective(s):	Language Objective(s):	
<p>Students will write related addition and subtraction facts to 12. 我会写到12的相关加法和减法算式。</p>	<p>Students will say numbers 1-12 while using addition facts to find the related subtraction facts. 我用加法算式来找出减法算式时会说1-12的数字。</p>	
<p>Essential Understanding: Addition and subtraction have an inverse relationship. The inverse relationship between addition and subtraction can be used to find subtraction facts; every subtraction fact has a related addition fact.</p>	<p>Academic Vocabulary for Word Wall: Listen: 减法, 减, 差 Read: 加法, 减法 Write: Speak: 减法, 减</p>	
<p>Materials:</p> <ul style="list-style-type: none"> • Counters (12 per pair) • Number Cubes (2 per pair; one with the numbers 1-6, one with numbers 7-12). • Cups (1 per pair) • Whiteboards and dry erase markers • Guided Practice page 150-151 • Problem Solving page 152 	<p>Language and Word Wall: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 加法, 加, 等于, 总和, 减法, 减, 差</p>	
Lesson: Thinking Addition to 12 to Subtract		Instructional Time: 35 minutes

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Opening: (2 minutes)

T: “你已经学会怎么用加法算式来帮助你做减法。今天你会继续练习。从你12支蜡笔的盒子里拿出4支。盒子里还有几支蜡笔？”

S: will say “8”.

T: “你可以怎么用加法来找出答案？”

S: will say “there are 8 left in the box. I know that because 4 and 8 makes 12.”

T: “这个的加法算式是什么？”

S: will say “ $4 + 8 = 12$.”

Introduction to New Material (Direct Instruction): (6 minutes)

•Distribute the counters, whiteboards, and dry erase markers to the students.

•Draw a large rectangle on the whiteboard. Draw a vertical line down the center of the rectangle. So, there are now two parts to the rectangle.

•The teacher will write $11 - 5 = \underline{\quad}$ on the whiteboard above the rectangle.

T: “这题的减法算式是什么？告诉你旁边的同学然后写在你的白板上。”

S: will say “ $11 - 5 = \underline{\quad}$.”

T: “你可以怎么用标记物和加法算式来解答？”

•The teacher will draw for counters (circles) in the box on the left.

T: “你知道全部是11然后一个部分是5。你还需要几个标记物才会有11？用手指比给我看。”

S: will show “6”.

•The teacher will write a 6 as the difference for $11 - 5$.

T: “所以未知的部分是6。”

•The teacher will draw 6 circles (counters) in the box on the right.

•Have the students put 6 counters to the right of their 5 counters.

T: “你可以用这些标记物表示什么加法算式？”

S: will say “ $5 + 6 = 11$ ”.

•The teacher will write the number sentence $5 + 6 = 11$ on the whiteboard.

Guided Practice: (15 minutes)

Use the modeling cycle:

Teacher Does:

•Draw a large rectangle on the whiteboard. Draw a vertical line down the center of the rectangle. So, there are now two parts to the rectangle.

T: “我需要数字方块，标记物和杯子来做这个活动。我的一个数字方块上有7-12的数字。我会丢数字方块然后把一样多的标记物放在杯子里。我得到____，所以我要把____个标记物放在杯子里。”

•The teacher will toss the number cube and place the correct number of counters in the cup.

T: “另一个数字方块上有1-6的数字。我会丢数字方块然后把一样多的标记物放在杯子里。我得到____，所以我要把____个标记物放在杯子里。我会把从杯子里拿出来的标记物放在左边的盒子里。”

•The teacher will toss the number cube and take the correct number of counters out of the cup.

T: “这些标记物的加法算式是什么？”

S: will say “ $\underline{\quad} + \underline{\quad} = \underline{\quad}$ ”

•The teacher records this addition sentence on the whiteboard.

T: “现在我要未知这些标记物写一个减法算式。要记得减法算式里的第一个减数是全部。你丢的第一个数字方块的数字是什么？”

S: will say “ $\underline{\quad}$ ”.

T: “我从杯子里拿出来几个方块？”

S: will say “ $\underline{\quad}$ ”.

T: “所以我有 $\underline{\quad} - \underline{\quad}$ 。现在我们要找出差。____减____是什么？”

S: will say “ $\underline{\quad}$ ”.

T: “杯子里还有几个标记物？”

S: will say “ $\underline{\quad}$ ”.

T: “等号之后的数字应该跟杯子里剩下的标记物是一样的。”

Students Do with Teacher:

•Draw a large rectangle on the whiteboard. Draw a vertical line down the center of the rectangle. So, there are now two parts to the rectangle.

T: “我需要学生来帮我。”

•Pick a student to come up and demonstrate the activity with the teacher.

T: “我需要数字方块，标记物和杯子来做这个活动。我的一个数字方块上有7-12的数字。我会丢数字方块然后把一样多的标记物放在杯子里。我得到____，所以我要把____个标记物放在杯子里。”

•The teacher will toss the number cube and place the correct number of counters in the cup.

Assessment:

Guided Practice

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