## **Glossary**

## Table 1 Common addition and subtraction situations<sup>1</sup>

Two bunnies sat on the grass. Three more bunnies hopped there. How many bunnies are on the grass. Some more bunnies hopped there. How many bunnies hopped there. Then there were five bunnies. How many bunnies hopped over to the first two?  2 + 3 = ?  (K)  Five apples were on the table. I ate some apples. How many apples are on the table. I ate some more bunnies hopped bere. Then there were five bunnies. How many bunnies were on the grass. Some bunnies hopped over to the first two?  2 + 7 = 5  (K)  Five apples were on the table. I ate some apples. How many apples are on the table. I ate some more bunnies hopped over to the first two?  2 + 7 = 5  (K)  Five apples were on the table. I ate some apples. How many apples did leat?  5 - 2 = ?  (K)  Total Unknown  Three red apples and two green apples are on the table. Three are red and the rest are green. How many apples are green?  3 + 2 = ?  Difference Unknown  ("How many more?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have?  (W)  Difference Unknown  ("How many more?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have?  2 + 3 = 5, 5 - 2 = ?  (In apples How many apples does Julie have five apples. How many apples does Julie have?  2 + 3 = 7, 3 + 2 = ?  One-Step Problem  (Version with "fewer"): Lucy has twe fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  Lucy has twe fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  1 Lucy has twe fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  2 +		Result Unknown	Change Unknown	Start Unknown
are on the grass now? 2 + 3 = ?  (x)  Five apples were on the table. I ate two apples. How many apples are on the table. I ate two apples. How many apples are on the table. I ate two apples. How many apples are on the table. I ate two many apples are on the table. I ate? 5 - 2 = ?  (x)  Total Unknown  Trice red apples and two green apples are on the table? 3 + 2 = ?  (x)  Total Unknown  Three red apples and two green apples are on the table? 3 + 2 = ?  (x)  Total Unknown  Three red apples and two green apples are on the table. How many apples are on the table. Three are red and the rest are green. How many apples are freen? 3 + ? = 5, 5 - 3 = ?  (x)  Difference Unknown  ("How many more?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have?  ("How many fewer?" version): Lucy has two apples. How many apples does Julie have?  ("How many fewer?" version): Lucy has two apples shan Julie. Lucy has two apples than Julie Lucy has two apples before?  ("How many fewer?" version): Lucy has two apples apples than Julie. Lucy has two apples than Julie Lucy has the fewer apples than Julie Lucy has two apples than Julie		Two bunnies sat on the grass. Three more	Two bunnies were sitting on the grass. Some	Some bunnies were sitting on the grass. Three more
Take from  Total Unknown  Total Unknown  Total Unknown  Total Unknown  Three red apples and two green apples are on the table?  3 + 2 = ?  (K)  Total Unknown  Three red apples and two green apples are on the table?  3 + 2 = ?  (K)  Total Unknown  Three red apples and two green apples are on the table?  3 + 2 = ?  (K)  Total Unknown  Three red apples and two green apples are on the table?  3 + 2 = ?  (K)  Three red apples and two green apples are on the table?  3 + 2 = ?  (K)  Three red apples and two green apples are on the table?  3 + 2 = ?  (K)  Three red apples and two green apples are on the table?  3 + 2 = ?  (K)  Three red apples and two green apples are on the table?  3 + 2 = ?  (K)  Three red apples and two green apples are on the table?  3 + 2 = ?  (K)  Three red apples and two green apples are on the table. Three are red and the rest are green. How many apples are green?  3 + ? = 5, 5 - 3 = ?  (K)  Three there were three apples. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and three rest are green. How many apples are on the table. Three are red and three rest are green. How many apples are on the table. Three are red and three rest are green. How many apples are on the table. Three are red and three rest are green. How many apples are on the table. Three are red and three rest are green. How many apples are on the table. Three are red and three rest are green. How many apples are on the table. Three are red and three rest are green. How many apples are on the table. Three are red and three rest are green?  (K)  Uncy has two apples. Julie has five apples. How many apples does Julie have?  Three red apples are on the table. Three a	Add to	bunnies hopped there. How many bunnies	more bunnies hopped there. Then there were	bunnies hopped there. Then there were five
to the first two?  2 + ? = ?  (K)  Five apples were on the table. I ate two apples. How many apples are on the table now?  Take from  Take from  Take from  Five apples were on the table. I ate two apples. Then there were three apples. How many apples did I eat?  5 - 2 = ?  (K)  Five apples were on the table. I ate some apples. How many apples were on the table. I ate two apples. Then there were three apples. How many apples were on the table. How many apples are on the table. Three are red and the rest are green. How many apples are $\frac{1}{3} + 2 = ?$ Five apples are on the table. I ate two apples. How many apples are on the table before? ? -2 = 3  Compare¹  Five apples are on the table. Three are red and the rest are green. How many apples are $\frac{1}{3} + 2 = ?$ Five apples are on the table. I ate some apples are on the table. How many apples are on the table. Interearch and the rest are green. How many apples are $\frac{1}{3} + 2 = ?$ Difference Unknown  ("How many more?" version):  Lucy has two apples. How many apples does Julie have?   Some apples were on the table. I ate two apples. How many apples are on the table. Three are red and the rest are green. How many apples does Lucy have?  (Version with "more"):  Lucy has two apples. How many apples does Julie have?  Compare¹  ("How many fewer?" version):  Lucy has two apples. How many apples does Julie has five apples. How many apples does Julie have?  Yersion w		are on the grass now?	five bunnies. How many bunnies hopped over	bunnies. How many bunnies were on the grass
(k) (1st) One-Step Problem (2st) Five apples were on the table. I ate two apples. How many apples are on the table. I ate two apples. Then there were three apples. How many apples were on the table. I ate two apples. Then there were three apples. How many apples were on the table. I ate two apples. Then there were three apples. How many apples were on the table. I ate two apples. Then there were three apples. How many apples were on the table. I ate two apples. Then there were three apples. How many apples were on the table before? Poblem (2st)  Total Unknown  Addend Unknown  Three red apples and two green apples are on the table. Three are red and the rest are green. How many apples are green?  3 + 2 = ?  (k)  Difference Unknown  ("How many more?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many apples does Lucy have?  (Version with "more"): Lucy has two apples. How many apples does Lucy have than Julie?  2 + 3 = 7, 3 + 2 = ?  (Version with "fewer"): Lucy has two apples does Lucy have than Julie?  2 + 3 = 7, 3 + 2 = ?  2 + 3 = 7, 3 + 2 = ?  (Version with "fewer"): Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  1 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		2 + 3 = ?	to the first two?	before?
Five apples were on the table. I ate two apples. How many apples are on the table. I ate two apples. How many apples are on the table. I ate two apples. How many apples did I eat?  5-2=?  (K)  Total Unknown  Three red apples and two green apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are green?  3+2=?  (K)  Difference Unknown  ("How many more?" version): Lucy has two apples. Julie has five apples. How many more apples does Julie have than Lucy?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many apples does Julie has five apples. How many apples does Julie has five apples. How many apples does Julie has five apples. How many fewer apples does Lucy have?  ("How many fewer apples does Lucy have than Julie?  2+?=5,5-2=?  Five apples were on the table. I ate two apples. How many apples were on the table. I ate two apples. Then three were three apples. How many apples were on the table. I ate two apples. Then three were three apples. How many apples were on the table. Then there were three apples. How many apples were on the table. In the two apples. How many apples were on the table. In the two apples. How many apples were on the table. Then there were three apples. How many apples were on the table. How many apples were on the table. In the two apples. How many apples were on the table. Then there were three apples. How many apples does Into the table leaft?  5-2=3  (1st)  One-Step Problem  (Version with "fewer"): Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  1 Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  1 Lucy has three fewer apples than Julie. Julie has five apples. Ho			2 + ? = 5	? + 3 = 5
apples. How many apples are on the table now?  5 - 2 = ?  (K)  Total Unknown Three red apples are on the table? 3 + 2 = ?  (K)  Total Unknown Three red apples are on the table? 3 + 2 = ?  (K)  Difference Unknown  ("How many more?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have?  How many fewer?" version): Lucy has two apples. Julie has five apples. How many apples does Lucy have?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have than Julie?  2 + ? = 5, 5 - 2 = ?  Addend Unknown  Addend Unknown  Five apples are on the table. Three are red and the rest are green. How many apples are on the red vase and how many in her blue vase?  5 - 0 + 5, 5 = 5 + 0 5 = 1 + 4, 5 = 4 + 1 5 = 2 + 3, 5 = 3 + 2  (Version with "more"): Julie has three more apples than Lucy. Lucy has two apples. How many apples does Julie have?  (Version with "fewer"): Lucy has two apples. How many apples does Julie have?  (Version with "fewer"): Lucy has two apples does Lucy have?  (Version with "fewer"): Lucy has two apples does Lucy have?  (Version with "fewer"): Lucy has three fewer apples than Julie. Lucy has two apples. How many apples does Lucy have?  (Version with "fewer"): Lucy has three fewer apples than Julie. Lucy has two apples. How many apples does Lucy have?  (Version with "fewer"): Lucy has three fewer apples than Julie. Lucy has two apples. How many apples does Lucy have?  (Version with "fewer"): Lucy has three fewer apples than Julie. How many apples does Lucy have?  (Version with "fewer"): Lucy has three fewer apples than Julie. How many apples does Lucy have?  (Version with "fewer"): Lucy has three fewer apples than Julie. How many apples does Lucy have?  (Version with "fewer"): Lucy has three fewer apples than Julie. How many apples does Lucy have?		(K)	(1 <sup>st</sup> )	One-Step Problem (2 <sup>nd</sup> )
Take from    Now?   S - 2 = ?   (K)   (List)   (List)   (Dies to problem   (List)	Take from	Five apples were on the table. I ate two	Five apples were on the table. I ate some	Some apples were on the table. I ate two apples.
Total Unknown Three red apples and two green apples are on the table. How many apples are on the table. Three are red and the rest are green. How many apples are green?  3 + 2 = ?    Compare   Com		apples. How many apples are on the table	apples. Then there were three apples. How	Then there were three apples. How many apples
Put Together/ Take Apart <sup>2</sup> Put Together/ Take Apart <sup>3</sup> Put Together/ Take Apart <sup>4</sup> Put Together/ Take Apart <sup>4</sup> Put Together/ Take Apart <sup>5</sup> Put Together/ Take Apart <sup>6</sup> Put Together/ Take Apart <sup>6</sup> Put Together/ Take Apart <sup>7</sup> Put Together/ Take Apart <sup>8</sup> Put Together/ Ta		now?	many apples did I eat?	were on the table before? $?-2=3$
Total Unknown Three red apples and two green apples are on the table. Three are red and the rest are green. How many apples are green?  3 + 2 = ?  (K)  Difference Unknown ("How many more?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have?  Lucy has two apples. Julie has five apples. How many apples does Julie has five apples. How many fewer apples does Lucy have?  (Yersion with "fewer"): Lucy has two apples. Julie has five apples. How many apples does Julie has five apples. How many fewer apples does Lucy have than Julie?  2 + ? = 5, 5 - 2 = ?  Addend Unknown  Both Addends Unknown  Five apples are on the table. Three are red and the rest are green. How many apples are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the ta		5 – 2 = ?	5 – ? = 3	
Three red apples and two green apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the red vase and how many in her blue vase? $5 = 0 + 5, 5 = 5 + 0$ $5 = 1 + 4, 5 = 4 + 1$ $5 = 2 + 3, 5 = 3 + 2$ (List) Lucy has five apples. How many apples does Lucy have?  Three red apples and the rest are green. How many apples are on the table. Three are red and how many in her blue vase? $5 = 0 + 5, 5 = 5 + 0$ $5 = 1 + 4, 5 = 4 + 1$ $5 = 2 + 3, 5 = 3 + 2$ (Version with "more"):  Julie has 1 many five resion):  Lucy has three mer apples than Lucy have?  Three red apples and how many in her blue vase?  So 1 + 4 + 5 = 5 + 0 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1		(K)	(1 <sup>st</sup> )	One-Step Problem (2 <sup>nd</sup> )
Three red apples and two green apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and the rest are green. How many apples are on the table. Three are red and how many in her blue vase?  5 = 0 + 5, 5 = 5 + 0 5 = 1 + 4, 5 = 4 + 1 5 = 2 + 3, 5 = 3 + 2  (Version with "more"):  Lucy has two apples. Julie has five apples. How many apples does Julie has five apples. How many apples does Julie has five apples. How many apples does Lucy have?  ("How many fewer?" version):  Lucy has two apples. Julie has five apples. How many apples does Julie have?  (Version with "fewer"):  Lucy has two apples. How many apples does Julie have?  (Version with "fewer"):  Lucy has three fewer apples than Julie. Lucy has two apples. How many apples does Julie have?  2 + 3 = ?, 3 + 2 = ?  (Version with "fewer"):  Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  2 + 3 = ?, 3 + 2 = ?				
the table. How many apples are on the table?  3 + 2 = ?  (K)  Difference Unknown  ("How many more?" version): Lucy has two apples. Julie has five apples. How many fewer? version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie?  2 + ? = 5, 5 - 2 = ?  the table. How many apples are on the table?  green? 3 + ? = 5, 5 - 3 = ?  Bigger Unknown  (Version with "more"): Julie has five more apples than Lucy. Lucy has two apples than Lucy. Julie has five apples. How many apples does Julie have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Lucy have?  5 - 3 = ? ? + 3 = 5  One-Step Problem  (Version with "fewer"): Lucy has 3 fewer apples than Julie. Lucy has two apples. How many apples does Lucy have?  her red vase and how many in her blue vase?  5 = 0 + 5, 5 = 5 + 0  5 = 1 + 4, 5 = 4 + 1  5 = 2 + 3, 5 = 3 + 2  (Version with "more"): Julie has five apples. How many apples does Julie has five apples. How many apples does Lucy have?  1	· · · · · · · · · · · · · · · · · · ·	Total Unknown	Addend Unknown	Both Addends Unknown <sup>2</sup>
Put Together/ Take Apart <sup>3</sup>   3 + 2 = ?		Three red apples and two green apples are on	Five apples are on the table. Three are red	Grandma has five flowers. How many can she put in
Take Apart <sup>3</sup> (K)  Bigger Unknown  ("How many more?" version): Lucy has two apples. Julie has five apples. How many more apples does Julie have than Lucy?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many apples does Julie has two apples. How many apples does Lucy have?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie?  2 + ? = 5, 5 - 2 = ?  (Ist) (Version with "more"): Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  (Version with "fewer"): Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  2 + 3 = ?, 3 + 2 = ?		the table. How many apples are on the table?	and the rest are green. How many apples are	her red vase and how many in her blue vase?
Compare  (K)    Sigger Unknown   Smaller Unknown		3 + 2 = ?	green?	5 = 0 + 5, 5 = 5 + 0
Compare  Difference Unknown  ("How many more?" version): Lucy has two apples. Julie has five apples. How many more apples does Julie have than Lucy?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie?  2 + ? = 5, 5 - 2 = ?  Difference Unknown  (Version with "more"): Julie has 1 more apples than Lucy. Julie has five apples. How many apples does Julie have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Lucy have?  5 - 3 = ? ? + 3 = 5 One-Step Problem (Version with "fewer"): Lucy has 4 fewer apples than Julie. Lucy has two apples. How many apples does Julie have?  2 + 3 = ?, 3 + 2 = ?  Difference Unknown  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Lucy have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Lucy have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Lucy have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Lucy have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Julie have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Julie have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Julie have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Julie have?			3+?=5,5-3=?	5 = 1 + 4, 5 = 4 + 1
Difference Unknown  ("How many more?" version): Lucy has two apples. Julie has five apples. How many more apples does Julie have than Lucy?  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many apples does Julie have?  (1st)  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie?  2 + ? = 5, 5 - 2 = ?  Difference Unknown  (Version with "more"): Julie has three more apples than Lucy. Lucy has two apples does Julie has five apples. How many apples does Julie has five apples. How many apples does Julie have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Lucy have?  (Version with "fewer"): Lucy has three fewer apples than Julie. Lucy has two apples. How many apples does Lucy have?  Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  2 + 3 = ?, 3 + 2 = ?  2 + 3 = ?, 3 + 2 = ?				
("How many more?" version): Lucy has two apples. Julie has five apples. How many more apples does Julie have than Lucy?  (1st) (Wersion with "more"): Julie has three more apples than Lucy. Lucy has two apples. How many apples does Julie have?  (1st) ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie? Lucy has two apples does Lucy have than Julie?  (2nd) (Version with "more"): Julie has 3 more apples than Lucy. Julie has 6 ive apples. How many apples does Julie has 7 ive apples. How many apples does Julie have?  (Version with "more"): Julie has 3 more apples than Lucy. How many apples does Lucy have?  (Version with "fewer"): Lucy has 3 fewer apples than Julie. Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has 6 ive apples. How many apples does Lucy have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has 6 ive apples. How many apples does Lucy have?  (Version with "more"): Julie has 3 more apples does Lucy have?  (Version with "more"): Julie has 3 more apples does Lucy have?  (Version with "more"): Julie has 3 more apples than Lucy. Lucy has 3 exples. How many apples does Lucy have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has 6 ive apples. How many apples does Lucy have?  (Version with "more"): Lucy has 1 fewer"): Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Lucy have?  (Version with "more"): Lucy has 3 fewer apples does Julie have?  (Version with "more"): Lucy has 3 fewer apples does Julie have?  (Version with "more"): Lucy has 3 fewer apples does Julie have?		(к)	(к)	(1 <sup>st</sup> )
("How many more?" version): Lucy has two apples. Julie has five apples. How many more apples does Julie have than Lucy?  (Version with "more"): Julie has 1 wo apples than Lucy. Lucy has two apples does Julie have?  (1st) One-Step Problem (1st) ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie?  2 + 3 = 7, 3 + 2 = ?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has five apples. How many apples does Julie has 4 wo apples. How many apples does Julie has 5 wo apples. How many apples does Julie has 6 wo apples. How many apples does Julie has 6 wo apples. How many apples does Julie have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has 6 wo apples. How many apples does Lucy have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has 6 wo apples. How many apples does Lucy have?  (Version with "more"): Julie has 3 more apples than Lucy. Julie has 6 wo apples. How many apples does Julie has 6 wo apples. How many apples does Julie has 6 wo apples. How many apples does Julie has 6 wo apples. How many apples does Julie apples. How many apples does Julie apples. How many apples does Lucy have?  2 + 3 = 7 + 3 = 5  One-Step Problem (Version with "more"): Lucy has 3 fewer apples than Julie. Lucy has two apples. How many apples does Julie apples. How many apples does Lucy have?				
Lucy has two apples. Julie has five apples. How many more apples does Julie have than Lucy?  (1st)  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer?" version): Lucy has two apples. Julie has three more apples than Lucy. Lucy has two apples. How many apples does Julie has five apples. How many apples does Lucy have?  (Version with "fewer"): Lucy has two apples. Julie has five apples. How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer?" version): Lucy has five apples. How many apples does Julie has three more apples than Lucy. Lucy has five apples. How many apples does Lucy have?  (Version with "fewer"): Lucy has 3 fewer apples than Julie. Lucy has two apples. How many apples does Lucy have?  2+3=?,3+2=?  2+3=?,3+2=?				
How many more apples does Julie have than Lucy?  (1st)  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie?  2 + ? = 5, 5 - 2 = ?  How many more apples does Julie has two apples. How many apples does Julie have?  5 - 3 = ? ? + 3 = 5  One-Step Problem (1st) (Version with "fewer"): Lucy has 1 fewer apples than Julie. Lucy has two apples. How many apples does Lucy have?  Lucy has 3 fewer apples than Julie. Lucy has two apples. How many apples does Lucy have?  2 + 3 = ?, 3 + 2 = ?  2 + 3 = ?, 3 + 2 = ?		· · · · · · · · · · · · · · · · · · ·	,	,
Lucy?  (1st)  (multiple of the problem (1st)  ("How many fewer?" version):  Lucy has two apples. Julie has five apples.  How many fewer apples does Lucy have than Julie?  2 + ? = 5, 5 - 2 = ?  (1st)  One-Step Problem (1st)  (Version with "fewer"):  Lucy has 3 fewer apples than Julie. Lucy has two apples. How many apples does Julie have?  2 + 3 = ?, 3 + 2 = ?  2 + 3 = ?, 3 + 2 = ?	Compare <sup>4</sup>			
Compare (1st)  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie? 2 + ? = 5, 5 - 2 = ?  (1st) One-Step Problem (1st) One-Step Problem (1st) One-Step Problem (2nd) (Version with "fewer"): Lucy has 3 fewer apples than Julie. Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Julie have? 2 + 3 = 7, 3 + 2 = ?  2 + 3 = 7, 3 + 2 = ?		•		apples. How many apples does Lucy have?
Compare (1st) One-Step Problem (1st) One-Step Problem (2nd)  ("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie? Lucy has two apples does Lucy have than Julie? Lucy has two apples does Julie has five apples. How many apples does Julie have?  2 + ? = 5, 5 - 2 = ?  2 + 3 = ?, 3 + 2 = ?  One-Step Problem (1st) One-Step Problem (2nd)  (Version with "fewer"): Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Julie have?		Lucy?	have?	
("How many fewer?" version): Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie?  2 + ? = 5, 5 - 2 = ?  (Version with "fewer"): Lucy has 3 fewer apples than Julie. Lucy has three fewer apples than Julie. But have? Lucy has 3 fewer apples does Julie apples. How many apples does Julie have?  2 + 3 = ?, 3 + 2 = ?		. d.	. et.	
Lucy has two apples. Julie has five apples. How many fewer apples does Lucy have than Julie?  2 + ? = 5, 5 - 2 = ?  (Version with "fewer"): Lucy has 3 fewer apples than Julie. Lucy has three fewer apples than Julie. Julie has five apples. How many apples does Julie have?  2 + 3 = ?, 3 + 2 = ?				
How many fewer apples does Lucy have than Julie?  2 + ? = 5, 5 - 2 = ?  two apples. How many apples does Julie have?  2 + 3 = ?, 3 + 2 = ?		· · · · · · · · · · · · · · · · · · ·	, · · · · · · · · · · · · · · · · · · ·	
Julie? 2+?=5,5-2=? have? 2+3=?,3+2=?		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •
2 + ? = 5, 5 - 2 = ? 2 + 3 = ?, 3 + 2 = ?		* * * * * * * * * * * * * * * * * * * *		apples. How many apples does Lucy have?
(1 <sup>st</sup> ) One-Step Problem (2 <sup>nd</sup> ) One-Step Problem (1 <sup>st</sup> )				_
V. Droblem types to be mastered by the end of the Kindergarten year			, ,	One-Step Problem (1 <sup>st</sup> )

**K**: Problem types to be mastered by the end of the Kindergarten year.

1st: Problem types to be mastered by the end of the First Grade year, including problem types from the previous year(s). However, First Grade students should have experiences with all 12 problem types.

**2nd**: Problem types to be mastered by the end of the Second Grade year, including problem types from the previous year(s).