Strong Start Math Project

Session 8 Handouts
Wednesday June 29, 2016
Level 1 Thinking Strategies
p. 18-22
(Check modeling on p. 22)

Joining All
Ellen had 3 tomatoes. She picked 9 more tomatoes. How many tomatoes does Ellen have now?

Joining To (Clip 3.1)
Chuck has 3 dollars. How many more dollars does he need to buy a stuffed animal that costs 12 dollars?

Separating From (Clip 3.2)
There were 12 seals playing. 9 seals swam away. How many seal were still playing?

Separating To (Clip 3.4)
There were 12 people on the bus. Some people got off. Now there are 3 people on the bus. How many people got off the bus?

Matching (Clip 3.5)
Megan has 3 stickers. Randy has 12 stickers. How many more stickers does Randy have than Megan?

Trial and Error (Clip 3.6)
Deborah had some books. She went to the library and got 9 more books. Now she has 12 books altogether. How many books did she have to start with?
Level 2 Thinking Strategies
p. 24-26
(Check modeling on p. 27)

**Counting On From First**
Ellen had 3 tomatoes. She picked 9 more tomatoes. How many tomatoes does Ellen have now?

**Counting On From Larger** (Clips 3.8 & 3.9)
Ellen had 3 tomatoes. She picked 9 more tomatoes. How many tomatoes does Ellen have now?

**Counting On To** (Clip 3.10)
Chuck has 3 dollars. How many more dollars does he need to buy a stuffed animal that costs 12 dollars?

**Counting Down** (Clip 3.11)
There were 12 seals playing. 9 seals swam away. How many seal were still playing?

**Counting Down To**
There were 12 people on the bus. Some people got off. Now there are 3 people on the bus. How many people got off the bus?
Rita checked out 4 books from the library. She received 3 more in her Start Strong Summer Institute, which she can’t wait to read. How many books does Rita have now?

There are 32 participants in Strong Start. Amy K. is in front row of tables with some of the participants. Jenny is in the back row of tables with the rest of the participants. How many participants could sit at the front tables with Amy and how many could sit in the back tables with Jenny?
Ms. Twig had 5 red apples. She also had 7 green apples. How many apples did Ms. Twig have?

Paul has 14 golf balls. He finds some more in the basement. Now he has 60 golf balls. How many golf balls did Paul find in the basement?
32 teaching professionals came to the Start Strong Summer Institute. Some of them left for lunch on Monday with Kristi. 12 stayed and ate in the classroom with the instructors. How many participants went out to lunch?

Maureen read 10 standards in her CCSSM book which was 3 more than Danielle read. How many standards did Danielle read?
Raphael and Elise made dice towers. Raphael had 48 pips showing on her tower. Elise had 5 fewer pips showing on her tower. How many pips were showing on Elise’s tower?

There are 800 Unifix cubes for the Summer Institute participants to use. Some are in ten sticks but 500 cubes are not in sticks. How many cubes are neatly organized in sticks?
Lynette has used 14 pages in her notebook taking notes. Lerner has used 8 more pages than Lynette. How many pages in her notebook has Lerner used?

Bridget had 14 mini candy bars. She ate 11 of them. How many mini candy bars does she have left?
Kim won 8 games of Roll Over 16. Katie won 12. How many more games of Roll Over 16 did Katie win than Kim?

Kyle ate 10 mints from the candy jar. Claire ate 3. How many fewer mints did Claire eat than Kyle?
Emanuel and Tracy played Spot It! Tracy won 36 cards which were 7 fewer than Emanuel. How many Spot It cards did Emanuel win?

Julie baked some cookies. Then she baked 24 more cookies. Altogether, Julie has baked 58 cookies. How many cookies did Julie bake to begin with?
Ms. McNelly had some pencils. She lost 24 of them. Now she has 6 left. How many pencils did Ms. McNelly have to begin with?
ARU

(1) Rita checked out 4 books from the library. She received 3 more in her Start Strong Summer Institute, which she can’t wait to read. How many books does Rita have now?

TRU

(10) Bridget had 14 mini candy bars. She ate 11 of the mini candy bars. How many mini candy bars does she have left?

ACU

(4) Paul has 72 golf balls. He finds some more in the basement. Now he has 183 golf balls. How many golf balls did Paul find in the basement?

TCU

(5) 32 teaching professionals came to the Start Strong Summer Institute. Some of them left for lunch on Monday. 12 stayed and ate in the classroom. How many participants went out to lunch?

ASU

(14) Julie baked some cookies. Then she baked 24 more cookies. Altogether, Julie has baked 58 cookies. How many cookies did Julie bake to begin with?

TSU

(15) Ms. McNelly had some pencils. She lost 24 of them. Now she has 6 left. How many pencils did Ms. McNelly have to begin with?

PTTA

(8) There are 800 Unifix cubes for the Summer Institute participants to use. Some are in ten sticks but 500 cubes are not in sticks. How many cubes are neatly organized in sticks?

PTTA TU

(3) Ms. Twig had 5 red apples. She also had 7 green apples. How many apples did she have?

PTTA BU

(2) There are 32 participants in Strong Start. Amy K. sits in from with some of the classmates. Jenny sits in the back row with the rest of the participants. How many participants could sit at the front tables with Amy and how many could sit in the back tables with Jenny?

CDU (more)

(12) Kyle ate 10 mints from the candy jar. Claire ate 3. How many fewer mints did Claire eat than Kyle?

(9) Lynette has used 14 pages in her notebook taking notes. Lerner has used 8 more pages than Lynette. How many pages in her notebook has Lerner used?

(13) Emanuel and Tracy played Spot It! Tracy won 36 cards which were 7 fewer than Emanuel. How many Spot It cards did Emanuel win?

(6) Maureen read 10 standards in her CCSSM book which was 3 more than Danielle read. How many standards did Danielle read?

(7) Raphael and Elise made dice towers. Raphael had 48 pips showing on her tower. Elise had 5 fewer pips showing on her tower. How many pips were showing on Elise’s tower?
<table>
<thead>
<tr>
<th></th>
<th>Result Unknown</th>
<th>Change Unknown</th>
<th>Start Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Add to (Join)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Take From (Separate)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Put Together or Take Apart</td>
<td>Total Unknown</td>
<td>One Addend Unknown</td>
<td>Both Addends Unknown</td>
</tr>
<tr>
<td>---------------------------</td>
<td>---------------</td>
<td>-------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compare</td>
<td>Difference Unknown</td>
<td>Bigger Unknown</td>
<td>Smaller Unknown</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------</td>
<td>----------------</td>
<td>----------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>