On the Playground

Beginning Questions?

(You and the students point and count together.)

- What do you see in this picture? (children, grown ups, dog, birds, swings, monkey bars)
- What are the children doing? (playing, swinging, hanging, throwing, waiting)
- Let's count the number of children on the swings, pointing as we count. (1, 2, 3, 4)
- Let's count the number of children at the monkey bars. (1, 2, 3, 4, 5)
- Point to the child who is finished crossing the monkey bars.
- Point to the child who is first in line to go on the monkey bars, second in line, and last.

Intermediate Questions ??

(Students will need to point and touch while counting.)

- How many grown-ups are at the playground? (1, 2)
- How many children are at the playground? (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13)
- How many children are on the swings? (1, 2, 3, 4)

Advanced Questions ???

- How many children are on the monkey bars? (2)
- How many are waiting for a turn on the monkey bars? (3)
- Altogether how many children are at the monkey bars? (5)



Advanced Questions ???

- How many apples are on each tree? (5)
- How many apples are on all of the trees together? Let's count by fives. (5, 10, 15, 20, 25; five groups of 5 is 25)
- How many trees have two children next to them? (3)
- How many trees have one child next to them? (2)
- How many trees have no child next to them? (0)
- The little girl on the step stool just picked an apple. How many apples were on the tree before she picked that apple? (6: 5 + 1 = 6)
- How many children are standing? (7)
- How many children are not standing? (2)
- How many children are there altogether? (9: 7 + 2 = 9)
- Tell me a number story about this picture.

Challenging Questions ????

- If three more of the children sit down for a rest, how many will be standing? (4)
- How many will now be sitting? (5)
- How many groups of five apples do you see? (9)
- How many total apples are there in those nine groups? (45; encourage students to count by fives and explain that they are not to count the stray apples)
- If five more children come to the apple orchard with one more grown-up, how many children will there be? (14: 9 + 5 = 14)
- How many grown-ups will there be? (4: 3 + 1 = 4)
- If three children leave, how many children will be left picking apples? (6: 9 3 = 6)
- Can you make up your own math story about this illustration?

On the Playground



Subtracting with Word Problems Part 1

Applying Math in the Real World with a Concrete-Pictorial-Abstract Approach

Using the Word Problem Story Mats:

Select a story mat. Determine which operation will be your focus and choose a word problem from the samples provided or create your own. Sample problems for each story mat are organized into categories:

- 1-3: Part/Whole Addition Problems
- 4-5 Subtraction Problems
- 6-7 Missing Addend Problems
- 8-10 Challenge Problems (deeper thinking)

Read the problem three times out loud to your student before they begin to solve it.

- ✓ Encourage students to repeat each part of the problem after you have read it.
- ✓ Personalize the problem by adding in familiar names (teachers, friends, etc.).
- ✓ Adjust the quantity of numbers in the problem based on the student's ability.

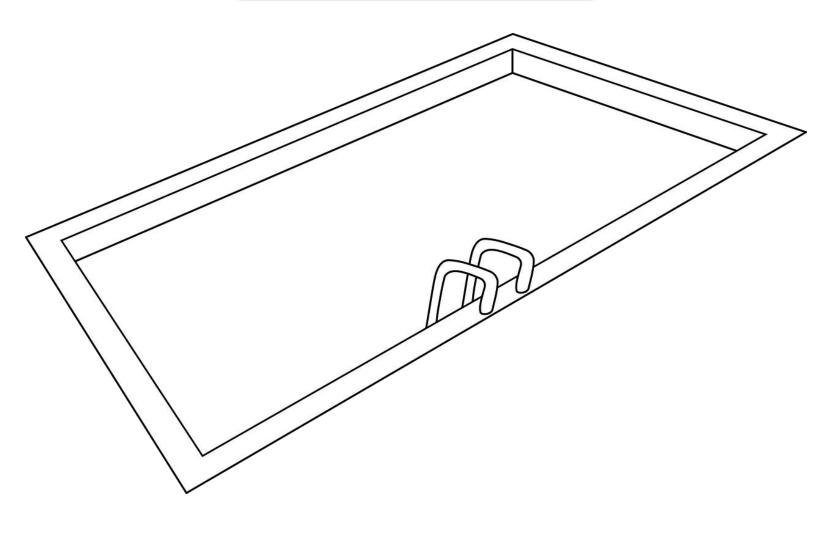
Applying CPA

- As you read the problem aloud, let students use manipulatives (unifix cubes, beans, beads, counters, etc.) to represent the word problem concretely. Allow your student to explore the problem and act it out using the manipulative without leading prompts, correction or intervention.
- When students are comfortable with the problem, encourage your student to draw a **pictorial** representation using a Quick Draw, which uses simple shapes ("x", circles, tallies, etc.) without much detail to represent the quantities they used while acting out the problem with manipulatives.
- Finally, students can write a number sentence or number bond to demonstrate their abstract understanding of the problem.

Watch the video tutorials to see examples and get more tips and ideas: sis4teachers.org/early-word-problems/



My Word Problem Story Mat In the Pool



In the Pool Word Problems

Sample Word Problems:

- 1. There were 5 boys and 4 girls **in the pool.** How many kids were in the pool?
- 2. There were 4 red beach balls and 3 green beach balls in the pool. How many beach balls were in the pool in all?



- 3. One dog jumped **in the pool** and then 2 more dogs jumped in. How many dogs are in the pool?
- 4. There were 9 kids **in the pool**. 3 kids had to go home. How many kids are in left in the pool?
- 5. When we got in the pool there 6 dry towels on the bench. Our friends used 3 of the towels to dry off. How many dry towels are left?
- 6. There are kids 7 kids in the pool. 4 of the kids have on a blue bathing suit and rest have on a red bathing suit. How many kids are wearing red bathing suits?
- 7. There were 5 rafts in the pool. 2 of the rafts had kids on it and the rest didn't. How many rafts didn't have kids on it?
- 8. The boy saw 3 people swimming in the pool. How many arms did he see?
- 9. There are 5 pairs of googles by **the pool** but there are 8 kids needing googles. How many kids will not get a pair of googles?
- 10. Two dogs jumped in the pool with the boy. How many legs are in the pool?

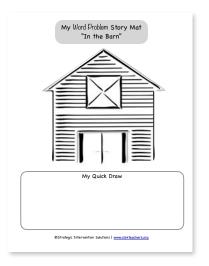
My Word Problem Story Mat In the Ocean



In the Barn Word Problems

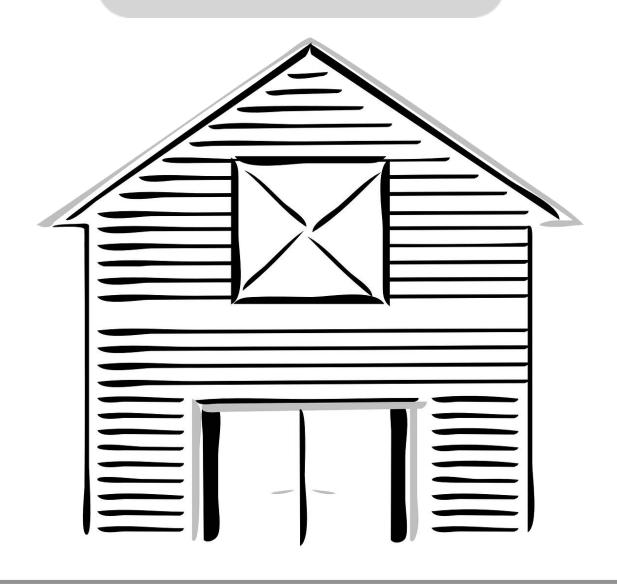
Sample Word Problems:

- 1. There were 2 cows in the barn and 3 cows out of the barn. How many cows are there in all?
- 2. We saw 3 sheep and 2 pigs **in the barn**. How many animals are in the barn?



- 3. There were 6 goats in the barn, 2 more goats joined. How many goats are in the barn now?
- 4. There were 8 crows on **the barn**. 6 of them flew away. How many crows are left on the barn?
- 5. The farmer had 9 barrels of hay **in the barn**. The horses ate 2 barrels of the hay. How many barrels of hay does he have left?
- 6. The are 8 horses **in the barn**. 5 of them are brown and the rest are black. How many black horses are in the barn?
- 7. We saw 6 mice **in the barn**. 3 of the mice scurried away. How many mice are still in the barn?
- 8. There were 2 piglets by the barn. How many legs were there in all?
- 9. We saw 3 chicken in the barn. How many chicken feet did we see?
- 10. We spotted 8 eggs in the barn. If there were 4 chickens and they each laid the same amount of eggs how many eggs did they each lay?

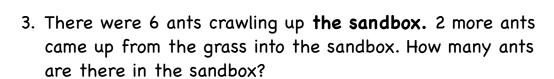
My Word Problem Story Mat In the Barn

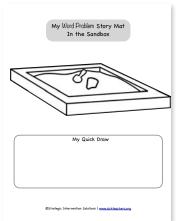


In the Sandbox Word Problems

Sample Word Problems:

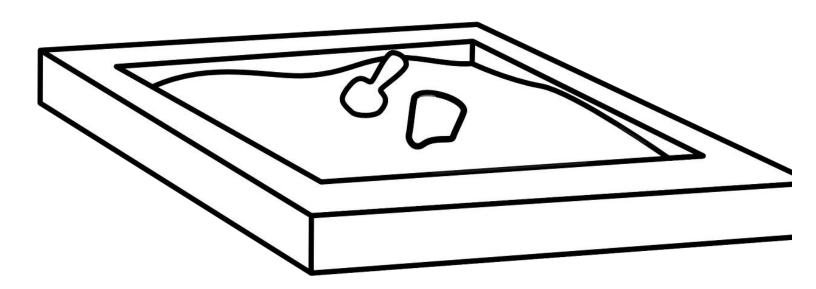
- 1. We found 3 blue shovels and 4 yellow shovels in the sandbox. How many shovels did we find?
- 2. There are 2 pink buckets and 5 green buckets in the sandbox. How many buckets are there in all?





- 4. We saw 5 sandcastles **in the sandbox** in the morning. In the afternoon two of the sandcastles had fallen. How many sandcastles are left?
- 5. There were 8 kids playing **in the sandbox**. 3 of the kids had to leave. How many kids are left in the sandbox?
- 6. There were 7 kids **in the sandbox**. 4 of them were girls and the rest were boys. How many boys were in the sandbox?
- 7. The girl hid 8 pennies in the sandbox. She found 5. How many more pennies does she need to find?
- 8. There were 4 kids in the sandbox. How legs are there?
- 9. There were 3 kids **in the sandbox**. Each kid hid two treasures in the sandbox. How many treasures are hidden in all?
- 10. The boy has 2 play cars **in the sandbox**. Each car has 4 wheels. How many wheels are there?

My Word Problem Story Mat In the Sandbox



Trash Can Subtraction

Materials:

- 1 die
- 10 counters
- cards 7, 8, 9 and 10 (cut out cards below)

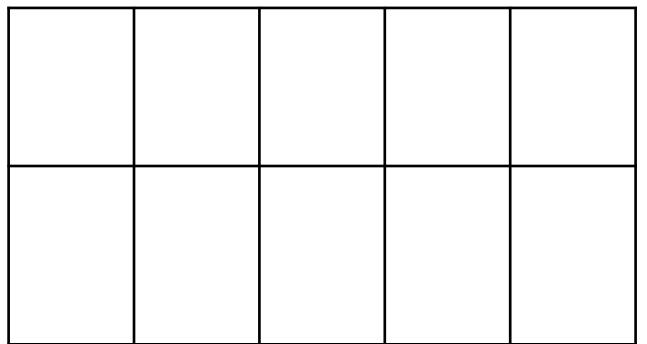
Directions:

- 1. Place the cards in a pile face down. Flip over the top card.
- 2. Build the number shown on the card on the ten frame.
- 3. Roll the die and take away the number shown on the die from the terms frame and put them in the trash can.
- 4. Fill in the recording sheet for steps 2-3.
- 5. Repeat steps 1-4

7

9 10

Trash Can Subtraction Mat

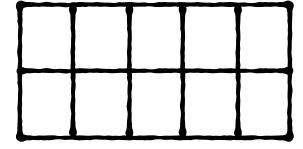




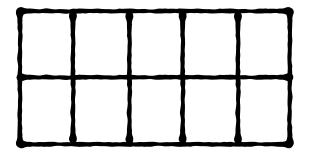
Name: _____

Trash Can Subtraction Recording Sheet

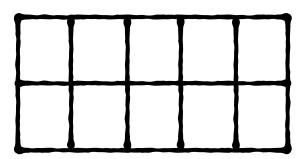
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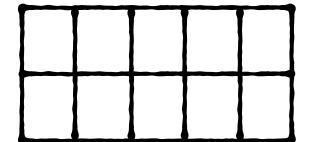
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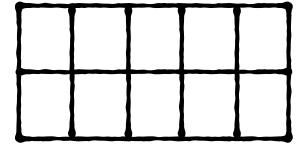
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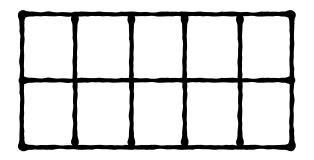
Trash Can Subtraction Recording Sheet



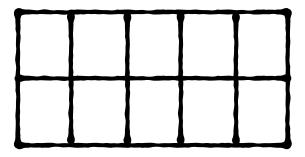
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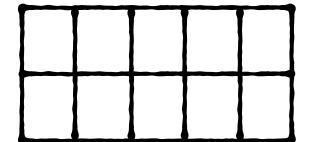


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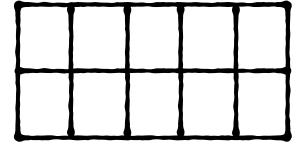


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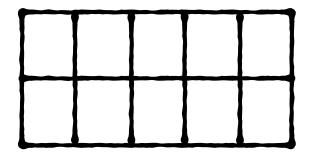
Trash Can Subtraction Recording Sheet



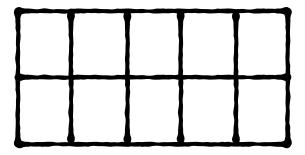
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