



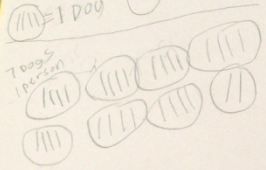
Grade 3 Sample

Grade 3	Groupings: Individual / Partner
Big Idea: There are many situations to which an operation is applied, and there are many procedures, or algorithms, for each operation.	
Prior Knowledge (scaffold) <ul style="list-style-type: none"> -patterning -counting by 2's, 4's, 5's, 10's -knowledge of base ten -number sentences -operations (addition, subtraction, multiplication) 	
Description of Activity <p>The students were given the following question: <i>There are 30 legs in my backyard, but I'm counting dogs and kids. How many dogs and kids are in my backyard? Show different solutions to this problem.</i> Students were given manipulatives to use and asked to show their answer using pictures, numbers, and words.</p>	
Demonstration of Knowledge <p>Students have math portfolios to demonstrate their answers in <i>pictures, numbers, and/or words</i>. Students demonstrated their thinking using manipulatives and pictures. The teacher circulated around the room and listened to students explain their results and show their thinking. Students presented the strategies they used to solve this problem to the whole class.</p>	
Reflections <p>The majority of students enjoyed working on this problem. They were able to make some real life connections and use past experiences to help them solve the problem. Students used various strategies to develop a workable solution. Some students made groups of 2 and 4 until they reached a total of 30. Other students drew pictures of dogs and kids until they had 30 legs altogether. A few students used their knowledge of multiplication and addition to create number sentences in order to complete the problem. The students were able to share their differing strategies with one another, helping to expand everyone's overall understanding of how to use a variety of procedures or algorithms to solve a problem.</p>	

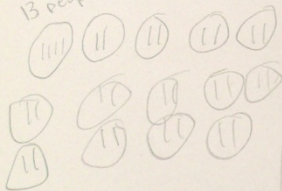
Problem: There are 30 legs in my backyard, but I'm counting dogs and kids. How many dogs and kids are in my backyard? Show me a couple of different solutions to this problem (remember to show your thinking).

picture

#1 1 dog 1 person



1 Dog 13 people #2



cards
First, I am going to draw my people and dogs.

Next, I am gonna write how many Dogs and people at the side.

Next, I am gonna do one more way.

Next, I will do the same as above.

last, I will write the solutions

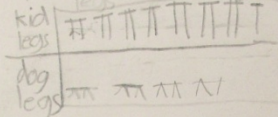
Solution: There is 7 Dogs & 1 person.

Solution: There is 1 dog & 13 people

Problem: There are 30 legs in my backyard, but I'm counting dogs and kids. How many dogs and kids are in my backyard? Show me a couple of different solutions to this problem (remember to show your thinking).

Legs Of kids And

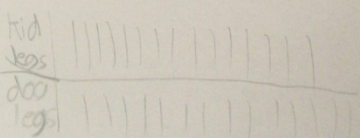
2 kid Dogs



2 kid
4 dog
legs

30 legs in total

Legs Of kids And Dogs

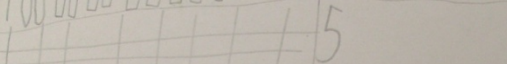


30 legs in total

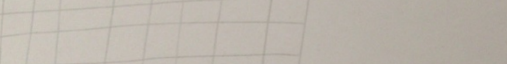
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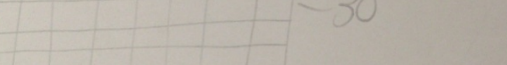
3 dogs 5 kids = 30



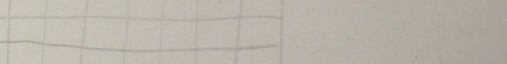
4 dogs 5 kids = 30



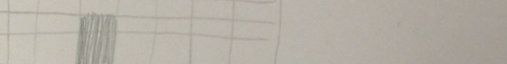
5 dogs 5 kids = 30



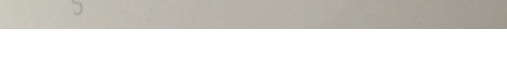
6 dogs 5 kids = 30



7 dogs 5 kids = 30



8 dogs 5 kids = 30

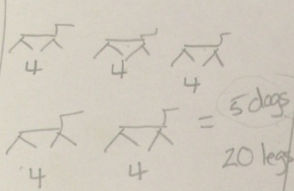


9 dogs 5 kids = 30

Problem: There are 30 legs in my backyard, but I'm counting dogs and kids. How many dogs and kids are in my backyard? Show me a couple of different solutions to this problem (remember to show your thinking).

pics (|||||) Words (what why)

5 kids 5 dogs = 30 legs



10 legs
+ 20 legs
30 legs

Solution: I found out that there is 5 kids and 5 dogs