Math Lesson

Lesson Title: Planting Seeds of Division
Grade: end of 3/going into 4th

Content Standard:
4.NBT.6 Find whole-number quotients and remainders with up to four digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

Materials:

- Egg cartons - planting boxes
- Seeds- grouped in baggies of 38
- Seed Packet Poster
- Lesson question poster
- 12s frames
- Markers
- Pencils
- Paper

Shared Experience and procedure details:
Objective: Each group will be given a seed packet with a number card taped to the back which will tell them how many seeds to plant in each hole in their garden. Students will plant their seeds and record their data on their 12s frame and paper. After they are finished planting they will share their finding with another group.

Set up: Teacher will need to create a 12s frame and number cards. The teacher will also need to collect egg cartons and count out seeds and put them in packets.

Step 1: Bring students together and share how I need help planting a garden. Explain to the students how more than one seed needs to be planted in each hole to ensure a healthy plant will survive. For this specific bean plant, 7 seeds need to go into each hole.

Step 2: Send students out from whole group into groups

Step 3: Teacher passes out garden boxes, bags of seeds. Gives direction to first count seeds to find out how many seeds there are.

Step 4: Students will then begin “planting” seeds in each garden hole (egg carton). They will repeat this same step until they have planted all 38 seeds.

Step 5: As teacher walks around, pass out twelves frames to groups to use to record their data.

Step 6: Students will record their findings using the 12s frame.

Step 7: Students will share with another group how they planted and what they found out.

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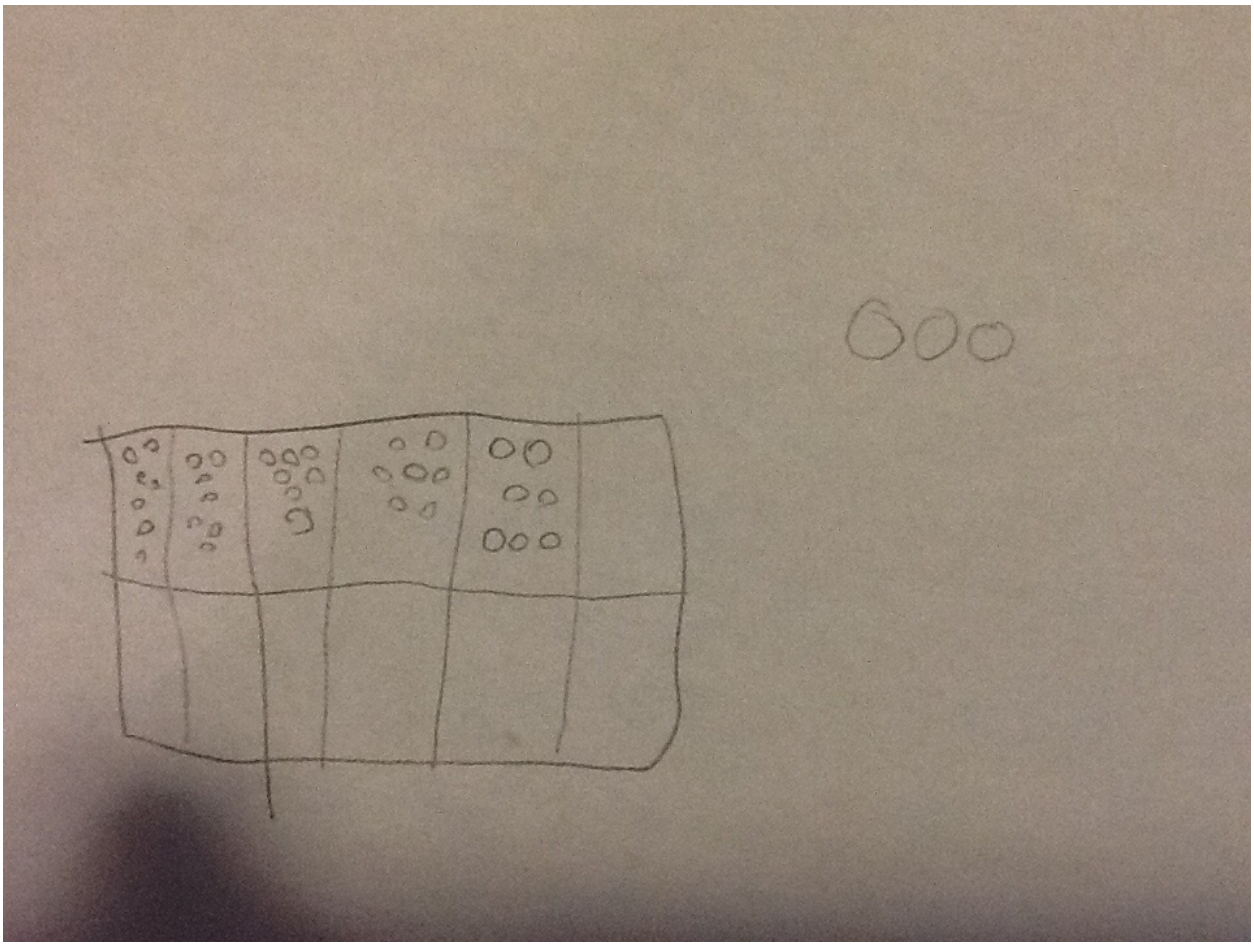
Possible Picture:



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Possible People Talk: we planted seeds into the garden. We started with 38 seeds then put 7 seeds into each hole. Next, we drew it out on our 12s frame. Then we shared what we did with another group.
Feature Talk: equal, groups, leftover, beans, holes, share, planted, subtract, divide, multiply, times, add, extra **38 seeds planted in groups of 7 is 5 groups with 3 leftover**
Possible Symbolic Representation: 38÷7=5r3 38=5x7+3 7+7+7+7+7+3=38 38-7-7-7-7-7-3 38÷7=5 3/7
Written By: Ashley Twedt, Jared Beans, Kailea Sparks and Jessica Litzenberg Date: 7-12-17