A Collaborative 3 Act Task

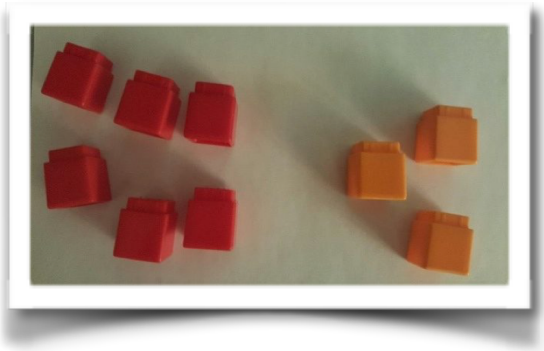
Title: Shark Bait link: https://gfletchy.com/shark-bait/

Big Idea: Number**:** counting and joining sets through 20
Curricular Competencies: modelling through acting out, using concrete materials, drawing pictures.
Content:
Benchmarks of 5, 10, 20
Decomposing 20 into parts
Whole class number talks; mental math strategies

Learning Target: I can represent my math thinking in pictures, numbers and words.

Before

Dot card Number Talk: Unifix Cube image.
Invite students to consider, "How many do you notice?" and record their responses. Next, invite students to share their thinking, "How do you see them?" Record responses visually and as a number model.



Setting the stage with the picture book:

Just One Bite by Lola Schaefer
Story begins with how much an earthworm eats in just one bite. (See index for more information on the common earthworm). Interesting that Fletchy calls this 3 act task ~ Shark Bait.

During

ACT ONE:

Establishing a Need to Know**: (**view video - 16 secs) The worm compared to 1 Unifix cube.

Invite students to investigate the video clip for

the math. Record student observations in a two column chart using the frame “What did you notice? What do you wonder?”

What did you notice?	What do you wonder?

Driving Question: How long is a worm?

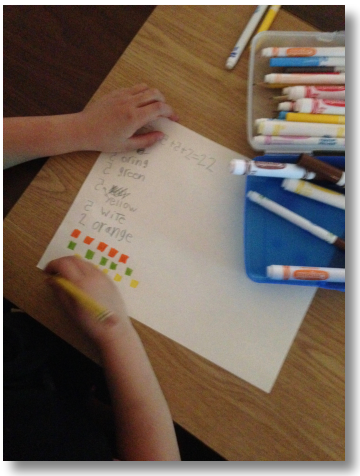
Estimating: Invite students to consider the driving question and then help establish a range by offering both a two low estimate and a too high estimate.

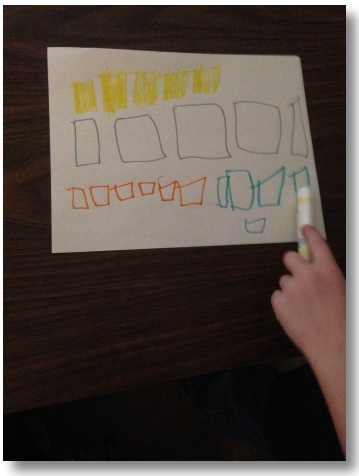
A too low estimate:	A too high estimate:

ACT TWO:

What information would be helpful to know for solving this problem?

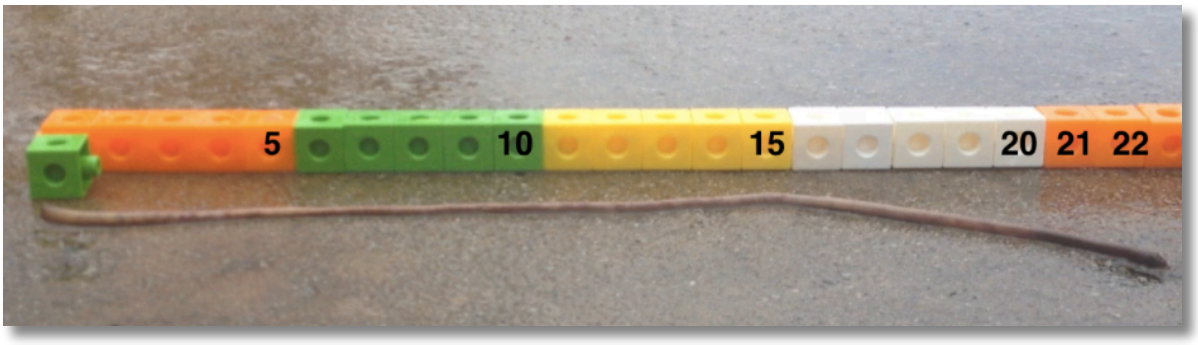
Students will work at tables to represent length of worm with Unifix cubes, cm cubes or other blocks. Remind students to show their thinking in pictures numbers and words.





After

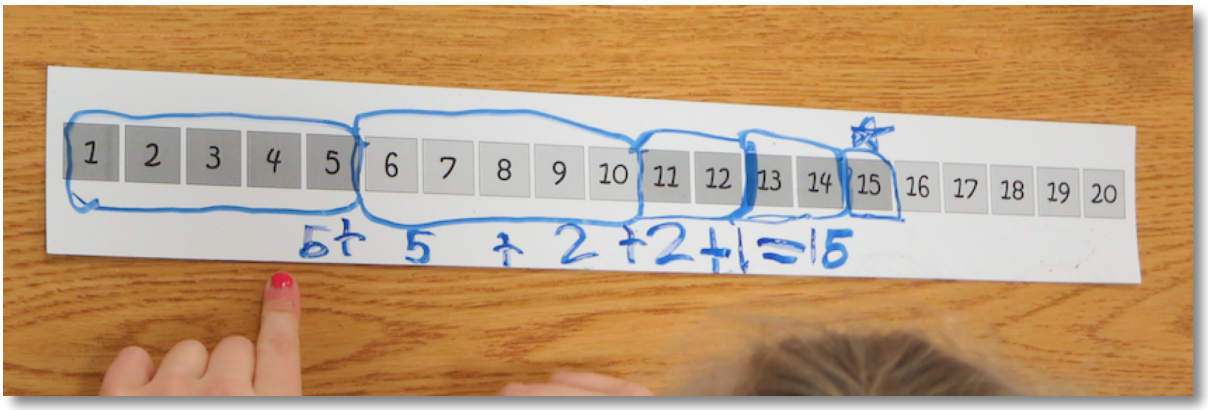
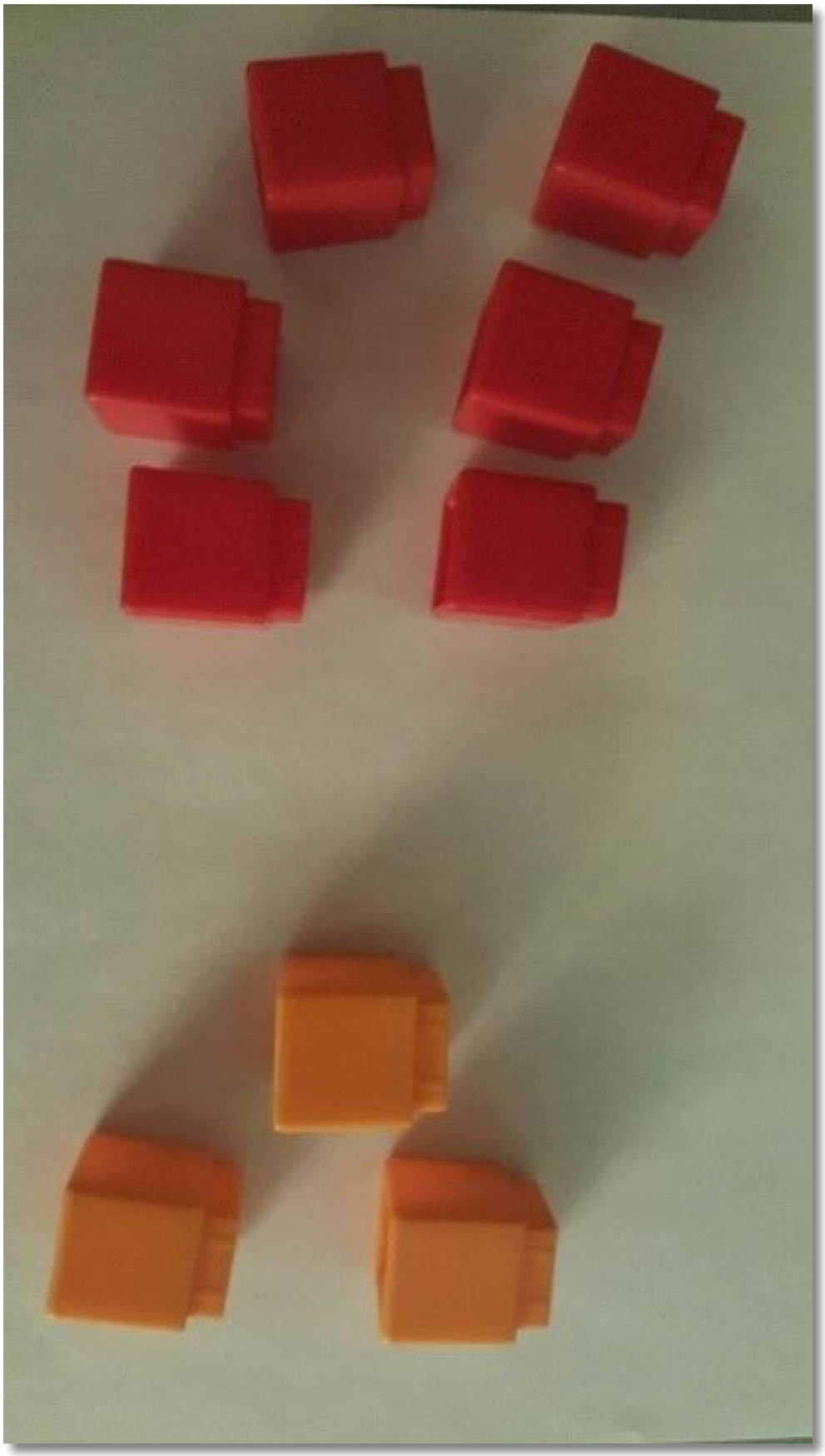
ACT THREE: show the 31 second video and still image for the reveal! Discuss.
Reflect on the process of solving this problem. What worked? What was difficult? What would you do differently next time?



Extension

Draw a worm the length of 20 unifix using different colours. Why did Mr. Fletchy choose to group colours in 5's ? Refer to benchmarks of 5 and 10

Represent thinking with a number path. Our number path goes to 20. How long was the worm?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