

Instructional Routines in Mathematics

Number Talk Images

Overview

Number Talk Images are an instructional routine during which an image is projected for the class to view and then respond to the questions:

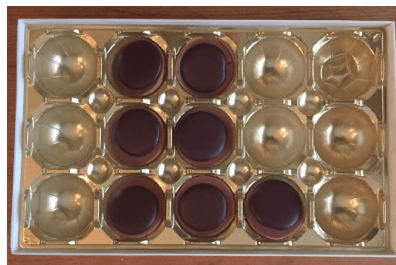
How many _____?

How do you see them?

Many of the images are organized in arrays so students might see groups in rows or columns or they may subitize smaller amounts within the larger grouping. When they are “missing” objects, students might calculate what the whole amount might have been and then subtract the missing objects.

As students are sharing the different ways they saw or counted the objects in the images, the educator records the different ways in pictorial (dots, circles/groups) and symbolic forms (numbers, equations). An alternative recording method is to make multiple copies of the image to project on a whiteboard and circle and mark-up each image with a whiteboard marker as students describe the way they determined how many objects there are.

Images can also be copied multiple times and printed for small groups of students to collaborate with, to see how many different ways they can decompose the quantity of dots or objects.



Resources

Number Talk Images website

curated by Pierre Tranchemange

collections of dot images, photos and strings/sets as well as instructional ideas

<http://ntimages.weebly.com>

Number Talk Image

What different ways do you see the quantity of objects?

How many dots?

How do you see them?

dot image from: <http://ntimages.weebly.com/points--dots.html>

