





- *Definition*: The focus of classroom activity is on mathematical content.
- Examples :
  - Teacher reviews content from a prior lesson
  - Teacher introduces content
  - Class discusses mathematical ideas
  - Students work independently on practice problems
  - Students work on warm-up problems while teacher takes attendance
  - Students work in groups to explore a complex mathematical problem





- Examples of activities not connected to mathematics:
  - Teacher gathers or distributes materials while students are *not* working on mathematics
  - Overly long transitions where students do no mathematical work
  - Disciplinary issues that severely impinge upon instructional time
  - Students doing an activity (cutting, pasting, coloring) that is not clearly connected to mathematics





# Scoring

- Score YES if **at least half** of the time in the segment (3.75 minutes or more, for a 7.5-minute segment) is spent on activities that are connected to mathematics.
- Score NO if **less than half** of the time in the segment (3.75 minutes or less, for a 7.5-minute segment) is spent on activities that are connected to mathematics.
- If the last segment of a lesson is less than 7.5 minutes, use half the length of the segment
- For training clips, use half the length of the clip





#### Notes

- Special cases:
  - Fire drills, extended visits from other teachers, disruption outside classroom window
  - For MET and NCTE studies: Contact your scoring leader





#### Examples

- Noel: Right Angles
- Anna: Fraction Flags
- Anna: Fraction Flags Continued
- Mercedes: Integers





# Noel: Right Angles

• 3<sup>rd</sup> grade

- In a previous lesson, the class discussed different cube attributes
- In this lesson, a student makes a conjecture: "a cube has 24 angles"
- Length of clip: 4:12





#### Noel: Right Angles: Video







# How would you score this clip for:

- Classroom work is connected to mathematics
- Take a moment to write down your score before moving on to our answers...





# Noel: Right Angles: Answers

- Classroom work is connected to mathematics: Yes
  - Whole time spent in a mathematical discussion





# Anna: Fraction Flags

- Length of clip: 6:08
- Second grade

Class has been working on unit fractions





#### Anna: Fraction Flags: Video







# How would you score this clip for:

- Classroom work is connected to mathematics
- Take a moment to write down your scores before moving on to our answers...





## Anna: Fraction Flags: Answers

- Classroom work is connected to mathematics: No
  - More time spent talking about non-mathematical issues
    - How to place a crest on a flag
    - What colors to use
  - Briefly talks about eighths and sixteenths, but is is less than half of the clip





#### Anna: Fraction Flags - Continued

- Length of clip: 3:22
- Some time has passed, students are now working on completing the flags





#### Anna: Fraction Flags - Continued: Video







# How would you score this clip for:

- Classroom work is connected to mathematics
- Take a moment to write down your scores before moving on to our answers...





#### Anna: Fraction Flags - Continued: Answers

- Classroom work is connected to mathematics: No
  - Students are coloring





# Mercedes: Integers

- Length of clip: 5:08
- 6<sup>th</sup> grade
- Connected Mathematics Project curriculum
- The class has been using colored cubes to perform integer operations
- At this point, students work on integer-operation tasks and the teacher circulates in the classrooms and provides support if needed





#### Mercedes: Integers: Video







# How would you score this clip for:

- Classroom work is connected to mathematics
- Take a moment to write down your scores before moving on to our answers...





#### Mercedes: Integers: Answers

- Classroom work is connected to mathematics: Yes
  - Whole clip is a mathematical discussion about integer operations









