

## Elapsed Time

### Related SOL:

3.15 – Calculation of time to the nearest hour, 5-minute, and minute interval. (Extension of this)

Objectives: After activity, student will be able to:

- Calculate elapsed time at 5 minute intervals, up to 2 hours, using pictures and clock manipulatives
- Draw the hour and minute hands in the correct place when asked to draw a given time on a blank clock

### Procedure:

- 1) Start with a review of time
  - a. Days in a week/month/year/leap year, weeks in a year, months in a year, seconds in a minute, minutes in an hour, hours in a day.
- 2) Have students stand around the big clock. Ask students to identify the hour and minute hands. As a class, count by 5's around the clock to show that they are 60 minutes in 1 hour. Ask one student to stand on the number of the clock that shows the beginning of a new hour (12)
- 3) Ask a student to move the minute hand to show a full hour. Explain that while the minute hand moves around the entire clock in an hour, the minute hand only moves a little bit.
- 4) Ask students to use the large clock to show the following times.
  - a. 8:30
  - b. 7:15
  - c. 10:55
  - d. 9:33
  - e. 1:04
  - f. Guiding questions for each time:
    - i. In between which two numbers should the hour hand be?
    - ii. Which number should it be closer to?
- 5) Ask a student to show 2:05 on the clock. Teacher should stand where the minute hand is pointing. Tell the students that some time has passed, and it is now 2:35. Ask a student to show this time on the clock. Demonstrate how to calculate the elapsed time by counting by 5's. When counting by 5's walk around the clock and step on each number to show your movement around the clock.
  - a. Guiding Questions:
    - i. Where would I start to count by 5's to see how much time has passed?
    - ii. How much time passed between 2:05 and 2:35?
  - b. Practice this with these times:
    - i. 9:20 → 9:55
    - ii. 4:30 → 4:55
    - iii. 5:35 → 6:25

iv. 12:40 → 1:50

v. 3:15 → 5:15

- 6) Independent Practice – elapsed time worksheet
- 7) Review elapsed time