

What is found in an Engaging Mathematics TEKS-based activity?

TEKS have been phrased in student friendly language so that students may gauge their learning.

Common classroom materials are used for ease of preparation. Materials are listed 1-per-student unless otherwise noted. Page titles for student handouts are bolded.

ELPS have been included in the form of a student friendly language objective.

Writing Inequalities from Situations 6(9)(A)

Activity Objective
I can represent situations with inequalities.
I can demonstrate understanding of a situation by summarizing its main ideas.

Materials

- **Tic-Tac-Inequalities**
- **Tic-Tac-Inequalities Cards**— 1 set per group of 2 students
- Scissors

Answer Key

Connor $9x > 150$	Matthew $150 + x > 300$	Ms. Weaver $30 + x > 150$
Debra $9x \leq 300$	Ms. Campbell $9x \leq 150$	Chris $9x \geq 150$
Dylan and Tracey $150 + x < 300$	Stacey $x + 9 \geq 150$	Megan $150 + x \geq 300$

Answer key is included for each activity.

Debriefing questions are included to assist the teacher with facilitating a post-activity student discussion.

Debriefing Questions

- How did you use the information in the situation to write each inequality?
- How did you determine the appropriate inequality symbol for each situation?

Listen For . . .

- *Connections among the situation, maximum or minimum values, and the inequalities.*
- *Understanding that an inequality communicates that an expression may be greater or lesser than a given value.*

Communicating about Mathematics
Students may respond by talking to a partner and recording a written response in the space provided.

Possible sentence frame:
I _____ to determine the correct inequality by _____.

Listen/Look For . . .
Understanding that an inequality is an algebraic summary of a situation that may be used to determine the solution in an efficient manner.

Each activity includes an opportunity for students to articulate and summarize their own learning. A sentence frame is provided for students who may need language support.

Key learning outcomes from the debriefing discussion are summarized here.

Key learning outcomes from the Communicating about Mathematics section are included here.