

TEKS Cluster:
TEKS Subcluster:
Student Expectations:
Activities Summary:

Equations/Inequalities
Applications of Equations/Inequalities
7.10(A), 7.10(C), 7.11(C) – Connected SEs: **7.11(A)**
Students learn to write equations and inequalities to represent word problems including geometric problems. Once they've written the equations or inequalities, they solve them and relate their answers back to the problem. Activities may be organized and delivered in three topics: **Application of Equations**, **Applications of Inequalities**, and **Angle Relationships**.

| Activity Title Student Expectations | Activity Topic | Type | | Delivery | |
|--|---|--------------|--------------|----------|---------------------|
| | | new learning | intervention | practice | teacher-facilitated |
| Applications of Equations | | | | | |
| From Word Problems to Equations to Solutions 7.11(A), 7.10(A) | Write and Solve Equations to Match Word Problems Students choose an equation to represent a problem, solve the problem, and check to see if the solution makes sense. | ✓ | ✓ | | ✓ |
| Find the Matches 1 7.10(C) | Match Word Problems and Equations This activity includes four sets of equations and word problems. Each set uses the same numbers so students must rely on the meaning of the problem, not the numbers, to find the matches. Students also write equations to match word problems. | | ✓ | ✓ | ✓ |
| Applications of Inequalities | | | | | |
| Greater Than or Less Than 7.10(A) | Use Inequalities to Represent Word Problems In this PowerPoint-driven activity, students learn to build inequalities from word problems. | ✓ | ✓ | | ✓ |
| Find the Matches 2 7.10(C) | Match Word Problems and Inequalities This activity includes four sets of inequalities and word problems. Each set uses the same numbers so students must rely on the meaning of the problem, not the numbers, to find the matches. Students also write inequalities to match word problems. | | ✓ | ✓ | ✓ |
| Angle Relationships | | | | | |
| These activities are also included in the Grade 7 Geometry and Measurement cluster. | | | | | |
| Angle Relationships 7.11(A), 7.10(C), 7.11(C) | Solve Equations Using Angle Measurements Students review angle relationships, write equations to match diagrams, and solve to find angle measures. | ✓ | ✓ | | ✓ |
| What's My Angle? 7.11(A), 7.10(C), 7.11(C) | Solve Equations Using Angle Measurements In this card sort, students match diagrams with equations and solve to find angle measures. | ✓ | ✓ | | ✓ |