Unit 2a-Analyze and Solve Percent Problems

Content Area: Math

Course(s): Math 7 PRE-ALGEBRA
Time Period: Marking Period 2

Length: WK1-4 Envision Mathematics Topic 4

Status: **Published**

Essential Questions

• How can percents show proportional relationships between quantities and be used to solve problems?

Big Ideas

- Identify percent, represent and solve proportional relationships with percent equations and using proportions.
- Understand percent change and percent error.

CSDT Technology Connection

8.1.8.DA.1: Organize and transform data collected using computational tools to make it usable for a specific purpose

Enduring Understandings

Ratios and Proportional Relationships

7.RP.2c Represent proportional relationships by equations. For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as t = pn.

7.RP.3 Use proportional relationships to solve multistep ratio and percent problems.

Mathematical Practices Focus

1. Make sense of problems and persevere in solving them. Lesson 1,2,3,4,5,6, page 169

- 2. Reason abstractly and quantitatively. Lesson 1,2,3,5,6, page 169
- 3. Construct viable arguments and critique the reasoning of others. Lesson 1,2,3,4,6, page 169
- 4. Model with mathematics. Lesson 3,4,5, page 169
- 5. Use appropriate tools strategically. Page 169
- 6. Attend to precision. Lesson 3,4 page 169
- 7. Look for and make use of structure. Lesson 1,2,3,4,5, page 169
- 8. Look for and express regularity in repeated reasoning. Lesson 5, page 169