

Math 7 Domain: Expressions and Equations

Day 27 Math 7

Learning Outcome – Students will be able to translate, solve, and graph inequalities.

Clusters/Standards

7.EE.4. Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.

7.EE.4.b Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$, where p , q , and r are specific rational numbers. Graph the solution set of the inequality and interpret it in the context of the problem. *For example: As a salesperson, you are paid \$50 per week plus \$3 per sale. This week you want your pay to be at least \$100. Write an inequality for the number of sales you need to make, and describe the solutions.*

Activities

DO NOW: Please make sure you have a calculator for today's quiz.

When John bought his new computer, he purchased an online computer help service. The help service has a yearly fee of \$25.50 and a \$10.50 charge for each help session a person uses. If John can only spend \$170 for the computer help this year, what is the maximum number of help sessions he can use this year.

Write and solve an inequality to solve...no need to write out question.
(don't forget to define your variable)

Let n =number of sessions

$$10.50n + 25.50 \leq 170$$

$$n \leq 13.76$$

13 sessions

Go over do now.

Discuss any questions the students have on the quiz.

Administer quiz on Inequalities.

Students can start skills check when done.

PrepTask: Integer and Fraction Review

Evaluation: PrepTask, Quiz, class participation