

# Open Sentences

## Summary

The student will represent verbal quantitative situations algebraically and evaluate these expressions for given replacement values of the variables.

## Main Core Tie

Mathematics Grade 7

[Strand: EXPRESSIONS AND EQUATIONS \(7.EE\) Standard 7.EE.4](#)

## Additional Core Ties

Mathematics Grade 8

[Strand: FUNCTIONS \(8.F\) Standard 8.F.4](#)

## Time Frame

1 class periods of 45 minutes each

## Group Size

Small Groups

## Life Skills

Thinking & Reasoning, Systems Thinking

## Background for Teachers

this is a review lesson that may or may not be needed

## Student Prior Knowledge

students should be proficient at adding, subtracting, multiplying, and dividing one-digit numbers.

## Intended Learning Outcomes

The student will represent verbal quantitative situations algebraically and evaluate these expressions for given replacement values of the variables.

## Instructional Procedures

Note: All materials are available on the website listed on the materials tab. The lesson begins with a pre-assessment [wuorderofoper.pdf](#), then the teacher presents the powerpoint lesson [opensentences.ppt](#), being certain to clarify anything that was not understood in the pre-assessment. The students then work in small groups to complete [hw\\_opensentences.pdf](#), then [individual\\_project.pdf](#) is assigned as homework.

## Strategies for Diverse Learners

a video of the lesson is provided that can be uploaded to the classroom website for students to view outside of class.

## Extensions

student may complete the activity [individual\\_project.pdf](#)

## Rubrics

[Math Problem Solving Rubric](#)

## Bibliography

open-source materials from Henrico County Schools

## Authors

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