

CH. 4 Exponents and Roots

Lesson: 4-1 Exponents
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 8

****Correct Homework, if any****

Lesson Objective

Students evaluate expressions with exponents.

Teaching Procedure

Read/discuss p. 162-163. Work p. 164 #1-14 at the board.

Homework Assignment

Workbook 4-1.

Lesson: 4-2 Integer exponents
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 8

****Correct Homework, if any****

Lesson Objective

Students evaluate expressions with negative exponents and evaluate the zero exponent.

Teaching Procedure

Read/discuss p. 166-167. Work p. 168 #1-12 at the board.

Homework Assignment

Workbook 4-2.

Lesson: 4-3 Properties of exponents
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 8

****Correct Homework, if any****

Lesson Objective

Students apply the properties of exponents.

Teaching Procedure

Read/discuss p. 170-171. Work p. 172 #1-12 at the board.

Homework Assignment

Workbook 4-3.

Lesson: 4-4 Scientific notation
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 8

****Correct Homework, if any******Lesson Objective**

Students express large and small numbers in scientific notation and compare two numbers written in scientific notation.

Teaching Procedure

Read/discuss p. 174-176. Work p. 176 #1-10 at the board.

Homework Assignment

Workbook 4-4.

Lesson: 4-5 Squares and square roots
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 8

****Correct Homework, if any******Lesson Objective**

Students find square roots.

Teaching Procedure

Read/discuss p. 182-183. Work p. 184 #1-13 at the board.

Homework Assignment

Workbook 4-5.

Lesson: 4-6 Estimating square roots
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 8

****Correct Homework, if any******Lesson Objective**

Students estimate square roots to a given number of decimal places and solve problems using square roots.

Teaching Procedure

Read/discuss p. 186-187. Work p. 188 #1-16 at the board.

Homework Assignment

Workbook 4-6.

Lesson: 4-7 The real numbers
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 8

****Correct Homework, if any******Lesson Objective**

Determine if a number is rational or irrational.

Teaching Procedure

Read/discuss p. 195-196. Work p. 197 #1-15 at the board.

Homework Assignment

Workbook 4-7.

Lesson: 4-8 The pythagorean theorem
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 8

****Correct Homework, if any****

Lesson Objective

Students use the Pythagorean Theorem to solve problems.

Teaching Procedure

Read/discuss p. 200-201. Work p. 202 #1-8 at the board.

Homework Assignment

Workbook 4-8.

Lesson: 4-9 Applying the Pythagorean Theorem and its converse
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 8

****Correct Homework, if any****

Lesson Objective

Students use the Distance Formula and the Pythagorean Theorem and its converse to solve problems.

Teaching Procedure

Read/discuss p. 204-205. Work p. 206 #1-8 at the board.

Homework Assignment

Workbook 4-9.

Lesson: Test
Author: Mr. Hilvers
Endorsed: St. Lawrence School
Level: Grade 8

Student Evaluation

Administer test on p. 215.