OLD SALEM EXPLORATORIUM

Lesson Plan

Subject: Grade 3 Math   **Lesson:** In Pursuit of Most Popular Pots

Standards Addressed: Represent and solve problems involving Multiplication and Division (NC.3.OA.3)

Objectives:
- Students will solve multiplication word problems using addition, subtraction, and multiplication, representing problems using equations with a symbol for the unknown number.
- Students will solve division word problems using addition, subtraction, and multiplication, representing problems using equations with a symbol for the unknown number.

Materials Needed:
- Device for showing *In Pursuit of Most Popular Pots* video
- "Most Popular Pots" activity
- Graph paper

Outline:
- Prior to the lesson students should know how to solve basic multiplication and division problems using factors, divisors, and quotients up to and including 10.
- Show the video.
- Discuss the activity prompt and use Activity 1 to model how to interpret the word problem as an equation, using a symbol as an unknown number. After modeling how to form the equation, encourage the students to solve the equation independently.
- Review the answers for Activity 1.
- Students may complete the remaining scenarios independently or with a partner.

Take It Further: Students write and solve their own scenario for providing pottery for the town of Salem.

Cross-Curriculum Connection: Students write a short creative response about how many pots they might need to store all of their food if they lived in Old Salem. Use grid paper to draw a diagram of their Old Salem house and decide how much room is for food storage and how much is living space.

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Most Popular Pots

Grade 3 Math

Student Name: _____ Date: _____

Activity 1: Five new families have moved to Salem this month. Each family will need four pots to start stocking their cellar. How many pots will the potter need to make for the new families?

Show your equation:

Solve:

Activity 2: The potter needs to make three new pots each weekday this week. How many pots will the potter make this week?

Show your equation:

Solve:

Activity 3: The potter only has nine pots left. But there are three angry people demanding as many pots as they can get. How many pots should the potter sell to each of the three people?

Show your equation:

Solve:

Activity 4: There are eight small towns in the area that need pottery, but only two potters. How many towns should each of the two potters provide for?

Show your equation:

Solve:

OLD SALEM EXPLORATORIUM
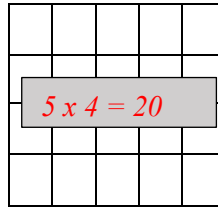
Most Popular Pots

Grade 3 Math

ANSWER KEY

Activity 1: Five new families have moved to Salem this month. Each family will need four pots to start stocking their cellar. How many pots will the potter need to make for the new families?
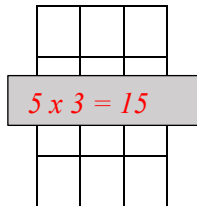
Show your equation: 5 x 4 = ?

Solve: 5 x 4 = 20

5 x 4 = 20

Activity 2: The potter needs to make three new pots each weekday this week. How many pots will the potter make this week?
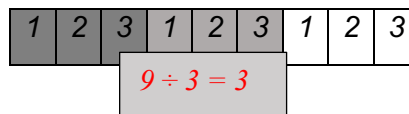
Show your equation: 5 x 3 = ?

Solve: 5 x 3 = 15

5 x 3 = 15

Activity 3: The potter only has nine pots left. But there are three angry people demanding as many pots as they can get. How many pots should the potter sell to each of the three people?

Show your equation: 9 ÷ 3 = ?

Solve: 9 ÷ 3 = 3

1	2	3	1	2	3	1	2	3

9 ÷ 3 = 3

Activity 4: There are eight small towns in the area that need pottery, but only two potters. How many towns should each of the two potters provide for?

Show your equation: 8÷2 = ?

Solve: 8 ÷ 2 = 4

1	2	3	4	1	2	3	4

8 ÷ 2 = 4