

MULTIPLICATION OF 3-DIGIT BY 3-DIGIT NUMBER

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Subject

Mathematics

Prepared By

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Grade Level

4

Overview

This lesson plan covers teaching content for;

1. Multiplication of 3-digit by 3-digit number
2. Quantitative aptitude problems related to multiplication

Objectives

Students should be able to;

1. Multiply 3-digit by 3-digit number
2. Solve quantitative aptitude problems related to multiplication

Activity Starter/Instruction

1. Practice doubling and halving two-digit numbers with the pupils, including odd numbers.
2. Then double and halve three- and four-digit multiples of ten
3. Then practice multiplying single-digit numbers by multiples of ten, for example 4×80 ; 3×120 ; 5×60 ; 20×8 ; 150×4 and $2\,000 \times 6$.

Guided Practice

Day 2/ Lesson 2: 15 Mins

1. Play 'What's my number?' with the pupils.
2. Ask questions that require them to calculate a product and also use division facts.
3. Give example, 'I am thinking of a number; if I divide it by 6, the answer is 4; what is my number (24)?' and 'If I multiply my number by 7, the answer is 35; what is my number (5)?'

Teacher Guide

Day 1/ Lesson 1: 15 Mins

1. Show pupils how we use the column method to multiply two 3-digit numbers by writing the numbers underneath each other.
2. Show them how to multiply 428 by the 5 units, then multiply 428 by the 4 tens (40) and then multiply 428 by the 2 hundred (200).
3. Show how each product is written underneath each other again and how the 3 products are then added using the column method.

Guided Practice

Day 3/ Lesson 3: 15 Mins

1. Explain that the use of the word "of" in mathematics denotes multiplication.
2. Illustrate how to extrapolate the mathematical processes from the given words.

Materials Required

- Multiplication charts
- Bead counters
- Oranges

Additional Resources

- https://www.mathtutordvd.com/public/Multiply_3DigitNumbers.pdf
- <http://www.math-shortcut-tricks.com/multiplication-shortcut-tricks/>
- <https://www.education.com/lesson-plan/3-digit-multiplication>
- <https://www.youtube.com/watch?v=W8MdiWaMLiI>
- <https://www.pinterest.com/pin/26261622199974570>

Additional Notes

4. You can also extend this activity to include multiples of 10 in the same way.

3. Use a few verbal examples involving “of” to familiarize pupils with its operation.
4. Give example, the teacher may call out “What is a half of 10?”, etc. to elicit verbal responses from the pupils

Assessment Activity

Assess their performance in the following:

1. Can pupils confidently translate “of” into a multiplication operation and solve the problems?

Assessment Activity

Assess pupil’s performance in the following areas:

1. Can pupils multiply three-digit numbers?
2. Can pupils solve problems involving multiplication?
3. Can pupils translate word sums into the multiplication operation?

Summary

1. Ask for volunteers to share their answers to the problems assigned.
 2. As the problems are reviewed in front of the class, have the students check their answers for accuracy.
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