

DAILY LESSON PLAN

Math GRADE:4

(NO.3/6)

INTERNATIONAL DAILY LESSON PLAN

Unit 2: Factors and Multiples.

Date: _____

Topic: prime and composite number, factors.

Year Level: 4

Key Learning Area: concept of prime and composite numbers, factors.

Outcomes: Students will be able to find factor pairs for whole numbers

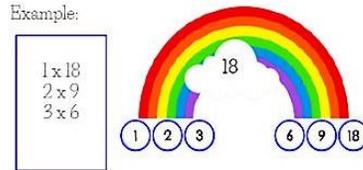
and determine if they're prime or composite numbers.

The students will be find factors of whole numbers.

Lesson Structure:

Time	Introduction (Set):	Teaching Approaches
10 min.	Define factors as numbers we can multiply together to get another number and show how the rainbow has factors that, when multiplied, produce the whole number on the rainbow.	Warm-up Activity: Ask your students to recall the tables.

First, list the factor pairs for the number in the cloud in the blue box. Then type the factors in order in the blue circles under the rainbow. Look at the example below to help you.



Explain that today they'll expand their understanding of factors by determining if the factors are **prime numbers** or **composite numbers**.

Inquire some random fun questions like:

Can you tell me how many numbers are there that can divide the number 24 completely?

Write down their suggestions on the board and then define factors and factor pairs.

Rainbow Worksheets:

Display the teaching component at the top of the Factor Rainbows worksheet. Ask students to turn and talk to their partners about how to complete the rainbow. Listen for key terms such as "factors" and "math expressions."



LESSON STRUCTURE:

Time	Main Content:	Teaching Approaches
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25
min.

Factor:

A factor is a number that is multiplied by another number to achieve a product.

Factor Pair:

A factor pair is the two factors that are multiplied to find a product.

$$3 \times 5 = 15$$

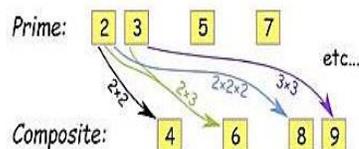
Here 3 and 5 is the factor pair.

Define prime numbers:

Whole numbers that can only be divisible by itself and 1.

Define composite numbers:

Composite numbers are those numbers that have more than two factors. In other words, composite numbers have factors other than 1 and itself.

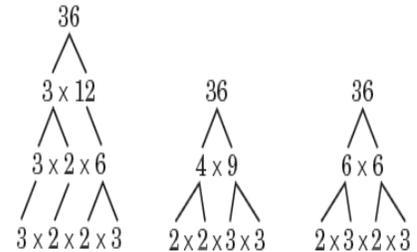


Ask students to shout out which numbers they think are prime and write them on the board in a T-chart with "prime" and "composite" written on top.

Picturing Factors:

Factor Tree:

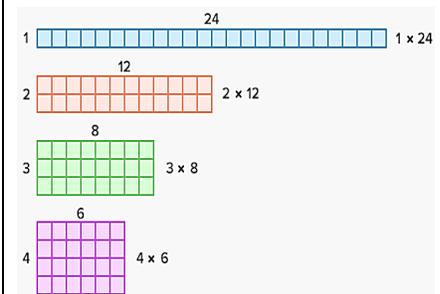
The teacher will model how to find all factors of a number through factor tree model as:



The teacher will give some numbers to students to find the factor pairs on their own and then check their answer.

Picturing factors:

Arrange 24 square in every possible way into equal sized groups as:



So, Factors of 24: 1, 2, 3, 4, 6, 8, 12 and 24

Factor pairs of 24: 1 × 24; 2 × 12 ; 3 × 8; 4 × 6.

	<p>We can demonstrate the factors visually by picturing the numbers in dots, in equal sized groups, to help us picture the factors of a number.</p> <p>While practicing the factors ask your students to justify either the obtained factors are prime or composite number?</p> <p>Correct any misconceptions with multiplication sentences and/or visuals, or allow other students to offer explanations.</p> <p>Once the students get the concept ask them to solve the pages numbers 48-51 of <i>incredible Mathematics of grade 4</i>.</p>	<p>Once the students get the idea give them related worksheets for visual factor pairs.</p> <p>Activity:</p> <p>Give flash cards of different numbers to students and ask them to show cards with numbers that they think are prime numbers or composite numbers.</p>
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Time	Conclusion:	Teaching Approaches
5 min.	<p>Students will be able to:</p> <ul style="list-style-type: none"> • Identify and differentiate 2-digit prime and composite numbers. • Find factor pairs for whole numbers and determine if they're prime or composite numbers. • Find factors of whole numbers up to 50. 	<p>Review the lesson with students. Ask students, "what did we learn about Factors today"?</p> <p>Give enough practice as homework</p> <p>Ask for questions.</p>

Resources:

Flash cards, Chart paper and marker, Rainbow worksheets, Picturing factors worksheets, Factor Tree worksheets, Incredible Mathematics Grade 4 book, notebooks etc.

Safety Consideration/ Materials

None

Assessment

Related worksheets

Board test

Mind-teasers.

Quiz etc.

Reflection

The students have understood that:

- How to Identify and differentiate 2-digit prime and composite numbers.
- How to find factor pairs for whole numbers.
- How to determine if they factors are prime or composite numbers.
- Factors of whole numbers up to 50.