Math

Number sense, algebra and statistics

Main Summary

Primary 6

Term 1

Free Sample



- Divisibility, Factors, and Multiples
- Rational Numbers
- Algebraic Expressions
- Equations and Inequalities
- Dependent and Independent Variables
- Data Distributions
- Measures of Central Tendency and Spread

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Unit 1

Divisibility, Factors, and Multiples

- Welcome, math champion!
- We learn the divisibility rules and prime factorization.
- We find the greatest common factor and the least common multiple.
- We use them with the distributive property and to add fractions.



1 Divisibility
2 Factorizing a Number into Its Prime Factors
3 Writing Expressions Using the G.C.F.
4 Analyzing Least Common Multiples

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Unit 1 · Lesson 1

Divisibility

Book: p. 1–2

Today's goal

Find the divisibility rules for 2, 3, 4, 5, 6 and 10.



Lesson ideas

1. **Divisibility**: a number is divisible by another number if the quotient is a whole number and the remainder is zero.
2. **By 2**: if the ones digit is even (0, 2, 4, 6, 8), like 102 and 120.
3. **By 3**: if the sum of its digits is divisible by 3, like 225 because 2 + 2 + 5 = 9.
4. **By 4**: if the number formed by the tens and ones digits is divisible by 4, like 116 because 16 is divisible by 4.
5. **By 5**: if the ones digit is 0 or 5, like 225 and 100.

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Divisibility

Book: p. 1–2

Contents

Lesson ideas (continued)

6. **By 6**: if it is divisible by both 2 and 3, like 102 and 120.
7. **By 10**: if the ones digit is zero, like 100 and 120.
8. If a number is divisible by another number, that number is a **factor** of it, and the first number is a **multiple** of the second.

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Divisibility

Book: p. 1–2

Contents

New words

Divisible The quotient is a whole number and the remainder is zero.

Even number Its ones digit is 0, 2, 4, 6 or 8.

Factor A number that divides another number with no remainder.

Multiple The product of a number and a whole number.

Remember

By 2: even ones digit. By 3: digit sum. By 5: ones digit 0 or 5. By 6: by 2 and 3 together.

In my life

To share 120 boxes equally among 6 villages, I first check that 120 is divisible by 6.

Family activity

Choose numbers from a shopping receipt with your family and decide which numbers they are divisible by.

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Unit 1 · Lesson 2

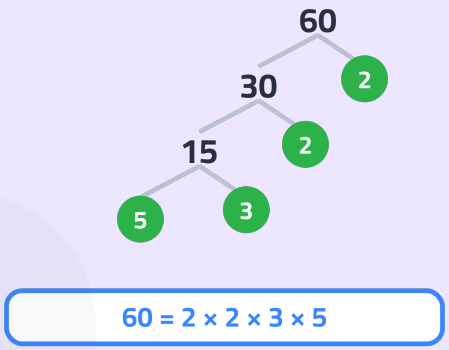
Factorizing a Number into Its Prime Factors

Book: p. 3–4

Contents

Today's goal

Write a number as a product of prime factors, and use it to find the GCF and the LCM.



60 = 2 × 2 × 3 × 5

Lesson ideas

1. A **prime number** has exactly two factors: 1 and itself, like 2, 3, 5, 7 and 11.
2. **Prime factorization**: writing a number as a product of prime numbers, like 60 = 2 × 2 × 3 × 5.
3. Methods: a **factor tree**, or repeated division by prime numbers (2, then 3, then 5...) until we reach 1.
4. **Greatest common factor (GCF)**: the greatest number that divides both numbers with no remainder; it is the product of the common prime factors.
5. **Least common multiple (LCM)**: the least number that is divisible by both numbers; it is the product of all the factors in the Venn diagram.

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Lesson ideas (continued)

6. **Venn diagram**: two overlapping circles; the common factors go in the overlap, and the other factors in each circle.
7. Example: 12 = 2 × 2 × 3 and 18 = 2 × 3 × 3. The common factors are 2 and 3, so GCF = 6 and LCM = 2 × 2 × 3 × 3 = 36.
8. **Relatively prime** numbers have only 1 as a common factor, like 8 and 9; their LCM is their product.

Factorizing a Number into Its Prime Factors

New words

Prime number
Has exactly two factors: 1 and itself.

GCF
The greatest common factor of two numbers.

LCM
The least common multiple of two numbers.

Venn diagram
Overlapping circles that show what is common and what is different.

Relatively prime
Numbers whose only common factor is 1.

Remember

Factor both numbers. GCF = product of the common factors. LCM = product of all the factors in the Venn diagram.

In my life

I have 12 pencils and 18 notebooks. To pack them in the greatest number of equal bags, I find GCF = 6 bags.

Family activity

Write the prime factorization of your family's ages and look for common factors.

Writing Expressions Using the G.C.F.

Book: p. 5–7

Contents

Today's goal

Write the sum of two numbers as a common factor times a sum.

Distributive property

$4 \times (2 + 3) = 4 \times 2 + 4 \times 3$

$= 8 + 12 = 20$

Lesson ideas

1. **Distributive property**: multiplying a number by a sum equals multiplying it by each addend and then adding the products.
2. Example: $4 \times (2 + 3) = 4 \times 2 + 4 \times 3 = 8 + 12 = 20$.
3. We can use the property in reverse: we take a **common factor** out of the sum.
4. Example: $8 + 12 = 4 \times (2 + 3)$, because 4 is the GCF of 8 and 12.
5. In real life: 4 boxes, each with 2 items of one kind and 3 items of another kind.
6. Using the GCF gives the simplest form: no common factor is left inside the parentheses.
7. Another example: $36 + 24 = 12 \times (3 + 2)$.

Writing Expressions Using the G.C.F.

Book: p. 5–7

Contents

New words

Distributive property Distributing multiplication over addition.

Numerical expression Numbers and operations with no variables.

Common factor A number that divides all the numbers in the sum.

Parentheses Show what we calculate first.

Remember

8 + 12 = 4 × (2 + 3): take out the GCF and write what is left inside the parentheses.

In my life

If I share 8 juice boxes and 12 biscuit packs equally among 4 friends, each one gets 2 juices and 3 biscuits.

Family activity

Share two kinds of sweets with your family on the greatest number of equal plates, and write the numerical expression.

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