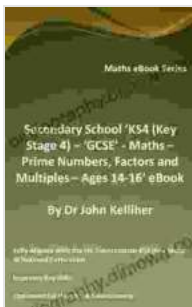


Unlock the Secrets of Mathematics: A Comprehensive Guide to Prime Numbers, Factors, and Multiples for KS4 Students

Mathematics is not just about numbers and equations; it's a powerful tool that helps us understand the world around us. Prime numbers, factors, and multiples are fundamental concepts in mathematics that play a crucial role in various fields, from computer science to cryptography. For KS4 students, mastering these concepts is essential for success in mathematics and beyond.



Secondary School 'KS4 (Key Stage 4) - Maths – Prime Numbers, Factors and Multiples– Ages 14-16' eBook

by Ernest Rabinowicz

★★★★★ 5 out of 5

Language	: English
File size	: 622 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 20 pages
Lending	: Enabled



This comprehensive guide is designed to provide KS4 students with a deep understanding of prime numbers, factors, and multiples. Packed with clear explanations, illustrative examples, and practice questions, this resource will transform students into confident mathematicians.


Chapter 1: Prime Numbers

The journey begins with prime numbers, the building blocks of mathematics. Students will learn:

*

PRIME NUMBER TABLE

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



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* Properties of prime numbers * How to determine if a number is prime *

The Prime Number Theorem

Chapter 2: Factors

Delving into the world of factors, students will discover:

*

Finding Factors by Multiplication

$24 = 1 \times 24$
 $24 = 2 \times 12$
 $24 = 3 \times 8$
 $24 = 4 \times 6$

Factors of 24

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* How to find the factors of a number * Prime factorization * The Greatest Common Factor (GCF)

Chapter 3: Multiples

Finally, the exploration continues with multiples, the extended family of numbers. Students will learn:

*

Definition of Multiples

- A multiple is the result of multiplying two numbers.
- Example: 21 is the multiple of 7 and 3;
since $3 \times 7 = 21$

This is the multiple

* How to find the multiples of a number * The Least Common Multiple (LCM)

Chapter 4: Application in Real-Life

To make learning relatable, this guide showcases practical applications of prime numbers, factors, and multiples in everyday life, including:

* Cryptography * Computer science * Physics * Engineering

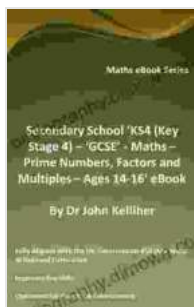
Chapter 5: Practice and Assessment

Practice makes perfect! This guide provides numerous practice questions and exercises to reinforce understanding. Students can:

- * Test their knowledge
- * Identify areas for improvement
- * Build confidence in solving mathematical problems

This comprehensive guide is the ultimate resource for KS4 students looking to excel in mathematics. By mastering the concepts of prime numbers, factors, and multiples, students will unlock a world of mathematical possibilities, empowering them for success in school, higher education, and their future careers.

Don't wait any longer to elevate your students' mathematical abilities. Free Download your copy of this essential guide today and watch them transform into confident and capable mathematicians!



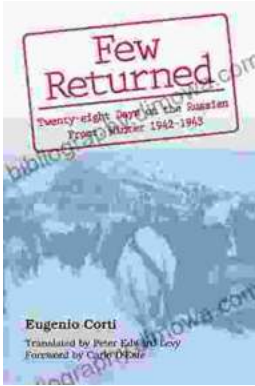
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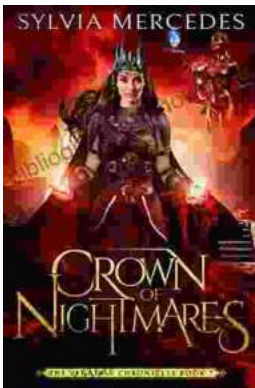
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