

# Quadratic Sequences



A sequence can be recognised as quadratic if it has a common  $2^{\text{nd}}$  difference.  
Complete the tables for Sections A, B and C.

## Section A

Sequence					6 <sup>th</sup> term	7 <sup>th</sup> term	n <sup>th</sup> term
0	3	8	15	24			
3	6	11	18	27			
4	7	12	19	28			
1	-2	-7	-14	-23			
							$n^2 - 6$

## Section B

Sequence				5 <sup>th</sup> term	6 <sup>th</sup> term	n <sup>th</sup> term
1	6	13	22			
5	10	17	26			
8	15	24	35			
11	6	3	2			
						$(n+1)^2 + 5$

## Section C

Sequence				5 <sup>th</sup> term	6 <sup>th</sup> term	n <sup>th</sup> term
2	6	12	20			
1	3	6	10			
3	12	25	42			
2	10	24	44			
						$n - 2n^2 + 5$

## Section D

Look at the patterns and answer the questions below.



- 1) How many tiles are in the 10<sup>th</sup> pattern?
- 2) How many tiles are in the n<sup>th</sup> pattern?

Pattern 1

Pattern 2

Pattern 3

Pattern 4



Pattern 1



Pattern 2



Pattern 3

- 3) How many matches are in the 100<sup>th</sup> pattern?
- 4) How many matches are in the n<sup>th</sup> pattern?

# Lesson 12 Practice B Introduction To Sequences

**D Siedentop**



## **Lesson 12 Practice B Introduction To Sequences:**

**A Practical Guide to Teaching Physical Education in the Secondary School** Susan Capel, Peter Breckon, Jean O'Neill, 2013-10-30 A Practical Guide to Teaching Physical Education in the Secondary School is written for all student teachers on university and school based initial teacher education courses It offers a wealth of tried and tested strategies together with practical activities and materials to support both your teaching and your pupils learning It is designed for you to dip in and out of to enable you to focus on specific areas of teaching or foci on your course This second edition is fully updated with the most recent research and developments in the field and includes brand new chapters Key topics covered include Understanding your own views about your subject NEW Lesson planning and schemes of work Physical Education and Key Skills Using ICT Cross curricular teaching and learning NEW Safe practice risk assessment and risk management Applying theories of learning to your practice Helping pupils meet intended learning outcomes NEW Promoting positive behaviour NEW Overcoming barriers and maximising the achievement of all pupils NEW Assessing learning Working with others Reflective practice and action research Photocopiable resources offer easy assistance in lesson observation planning preparation delivery and evaluation An annotated further reading section at the end of each chapter provides advice about selection of the best resources on the web and elsewhere Illustrated throughout with examples of existing good practice this highly practical resource offers valuable support and inspiration to all student teachers as well as those in the early years of their teaching career A Practical Guide to Teaching Physical Education in the Secondary School 2nd edition is a companion to Learning to Teach Physical Education in the Secondary School 3rd edition and can be used to reinforce the basic teaching skills covered in that core textbook The book can also be used equally successfully on its own *Eureka Math Grade 7 Study Guide* Great Minds, 2016-04-25 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the

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**Intensive Reading Interventions for the Elementary Grades** Jeanne Wanzek,Stephanie Al Otaiba,Kristen L. McMaster,2019-09-11 Packed with easy to use tools and resources this book presents intensive intervention strategies for K 5 students with severe and persistent reading difficulties Filling a key need the authors describe specific ways to further intensify instruction when students continue to struggle Chapters address all the fundamental components of reading phonological awareness phonics and word recognition reading fluency oral language language and reading comprehension and writing to read The authors discuss the design and implementation of intensive instruction and provide effective teaching techniques and activities Grounded in the principles of data based individualization the book includes concrete recommendations for determining students particular needs and monitoring their progress An NCTQ Exemplary Text for Reading Instruction **Contemporary Education Review** ,1982 *Teaching Thinking Skills* Barry K. Beyer,1991 *The Christian Advocate* ,1924 **Catalog and Yearbook** University of Northern Colorado,1918 **Gregg Typing** Rupert Pitt SoRelle,Harold Harland Smith,William R. Foster,Clyde Insley Blanchard,1941 **The Athenaeum** ,1897 **The Music students piano course** ,1919 **Educational Times and Journal of the College of Preceptors** ,1908 [A Suggested Program for First-year Graduate Work in Agricultural Education](#) William Anderson Broyles,1926 [Fine and Industrial Arts, Grades 5 and 6..](#) Oakland (Calif.). Board of Education,1927 **Fine and Industrial Arts...** Oakland, Calif. Board of education,1927 [School](#) ,1928 **Indian Engineering** ,1918

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