

ACT Test Outline

Math



60 Minutes



60 Questions

Preparing for Higher Mathematics (57%-60%)
Integrating Essential Skills (40%-43%)

English



45 Minutes



75 Questions

Production of Writing (29%-32%)
Knowledge of Language (15%-17%)
Conventions of Standard English (52%-55%)

Reading



35 Minutes



40 Questions

Key Ideas and Details (52%-60%)
Craft and Structure (25%-30%)
Integration of Knowledge and Ideas (13%-23%)

Science



35 Minutes



40 Questions

Interpretation of Data (40%-50%)
Scientific Investigation (20%-30%)
Evaluation of Models, Inferences,
and Experimental Results (25%-35%)

Writing



40 Minutes



1 Essay

Act Practice This Week

David Kirk



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 adults participants will explore various elements of the sandtray process in the context of clinical practice

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what is a shift register it s a type of electronic logic circuit that stores and transmits data by moving one bit in a particular direction of a register at every step a basic type of computer memory

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web lfsr stands for linear feedback shift register and it is a design that is useful inside of fpgas lfsrs are simple to synthesize meaning that they take relatively few resources and can be run at very high clock rates inside of an fpga there are many applications that benefit from using an lfsr including counters test pattern generators

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crc ffs plus a few xor gates better than counter external lfsr fewer gates higher clock frequency $q \ d \ q \ d \ q \ d \ q$ two types of lfsrs $ck \ ck \ ck \ ck$ external feedback internal feedback

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web oct 28 2019 the algorithm couldn't be entirely linear because it would get stuck it would produce nothing but zeros forevermore once it encountered an input sequence of all zeros so technically a lfsr is an nearly always linear feedback shift register it's linear for $2^n - 2$ inputs and nonlinear for 2 special inputs a lfsr is more general

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web in computing a linear feedback shift register lfsr is a shift register whose input bit is a linear function of its previous state the most commonly used linear function of single bits is exclusive or xor thus an lfsr is most often a shift register whose input bit is driven by the xor of some bits of the overall shift register value

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web feb 17 2013 the berlekamp massey algorithm is an iterative algorithm that solves the following problem given a sequence $s_0 \ s_1 \ s_2 \ s_0 \ s_1 \ s_2$ of elements of a field find the shortest linear feedback shift register lfsr that generates this sequence here lfsr is a linear array of n elements with initial value