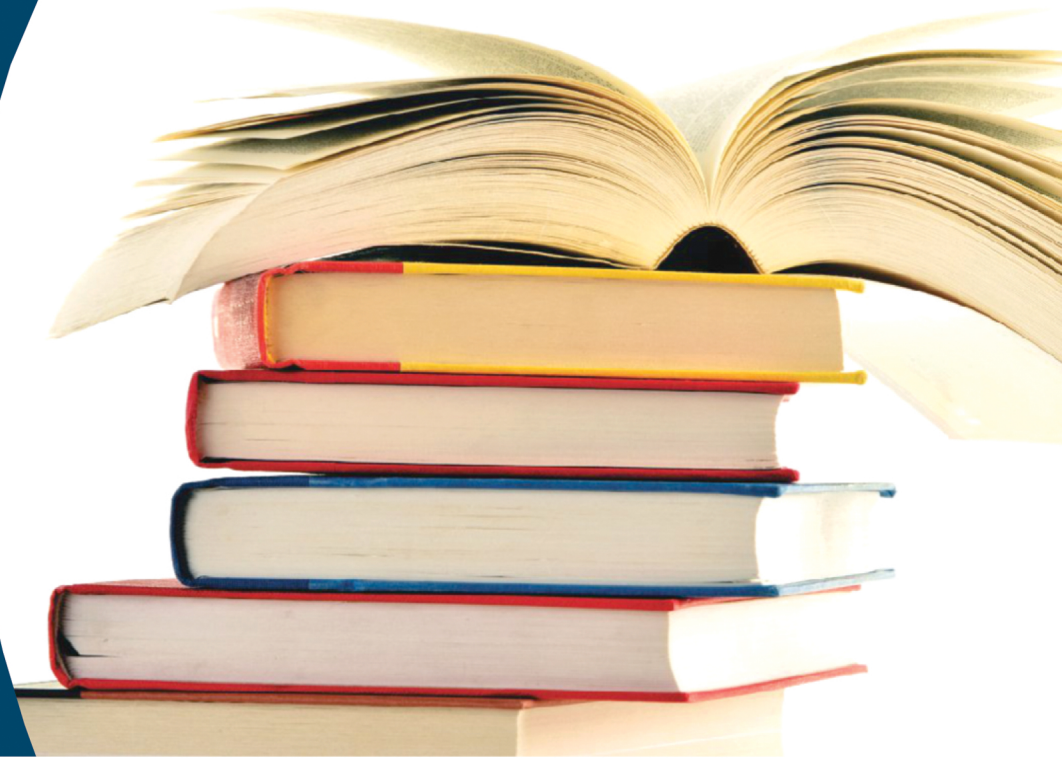
555 Math IQ Questions for Middle School Students

Dr. Steve Warner
Tayyip Oral

"Improve Your Critical Thinking with 555 Questions and Answers"



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555 Math IQ Questions

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Improve Your Critical Thinking with 555 Questions and Answers

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Dr. Steve Warner and Tayyip Oral

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BOOKS BY DR. STEVE WARNER

28 SAT Math Lessons to Improve Your Score in One Month
- Beginner Course
- Intermediate Course
- Advanced Course

320 SAT Math Problems Arranged by Topic and Difficulty Level

320 SAT Math Subject Test Problems Arranged by Topic and Difficulty Level
- Level 1 Test
- Level 2 Test

SAT Prep Book of Advanced Math Problems

The 32 Most Effective SAT Math Strategies

SAT Prep Official Study Guide Math Companion

SAT Vocabulary Book

ACT Prep Red Book – 320 ACT Math Problems with Solutions

320 AP Calculus AB Problems Arranged by Topic and Difficulty Level

BOOKS BY TAYYIP ORAL

A master's degree program preparation text book for undergraduate students in Azerbaijan.

A text book for job placement exam in Azerbaijan for undergraduate and post undergraduate students in Azerbaijan.

A text book covering algebra concepts and questions with detailed explanations at high school level in Azerbaijan.

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A university exam preparation text book for high school students in Azerbaijan.

Tayyip Oral, IQ Intelligence Questions for middle and high school students

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Introduction

This book was written for middle school students, with the goal of developing the problem solving skills necessary to excel in school and on standardized tests.

Some students are naturally gifted in mathematics and others seem to struggle with it all of their lives. The main difference between these two types of students is their level of *mathematical maturity*. Although there is no single agreed upon definition of mathematical maturity, I like to define it as "one's ability to analyze, understand, and communicate mathematics."

Simply knowing more mathematics is not enough to guarantee a higher level of mathematical maturity. For example, an AP Calculus student does not have a higher level of mathematical maturity simply because they know more mathematics. It is because they have been attempting and struggling with problems that require a higher level of thinking.

The good news is that mathematical maturity can be increased naturally. Doing so will greatly improve your problem solving ability as well as increase your potential math scores on standardized tests such as the SAT and ACT.

So when should someone begin trying to increase their level of mathematical maturity? The sooner the better! If you are a middle school student, then completing the 56 tests in this book is a great way to facilitate this process.

Practicing with this book will result in a strong foundation in deductive reasoning, analytical thinking, and solving problems “outside the box.” You will be trained to think quickly, carry out procedures without making careless errors, notice details within a short period of time, and detect inconsistencies. In addition you will be able to apply what you learn here to new situations as they arise.

This book contains verbal, visual, and numerical questions involving numbers, processes, and tables. After completing the tests in this book you should notice an increase in your level of mathematical maturity. This means you will be able to understand and communicate mathematics more effectively and with less effort. You will save yourself countless hours of frustration for many years to come.

555 MATH IQ QUESTIONS

Test 1

1. What is the sum of all the odd numbers strictly between 1 and 11?

A)24 B)75 C)76 D)30

2. What is the sum of all the even numbers strictly between 2 and 11?

A)24 B)26 C)28 D)30

3. Which number below is the smallest two digit prime number?

A)23 B)19 C)17 D)11

4. Which number below is the smallest prime number?

A)5 B)4 C)2 D)1

5. Which of the numbers below is the largest two digit prime number?

A)97 B)98 C)99 D)96

6. What is 1/3 of the largest two digit positive number?

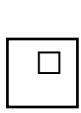
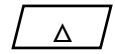
A)32 B)33 C)34 D)36

7. $\square + \Delta = 7$, $\Delta + \Delta = 6$, $\square + \Delta + \Delta = X$. Find the value of X.

A)10 B)11 C)12 D)17

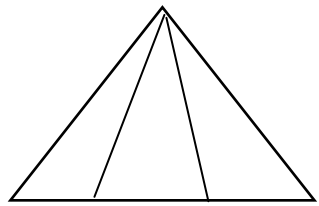
8. L → 2, N → 3, M → 4, E + F =

A)5 B)6 C)7 D)8

9.  → 44, → 33,  → *X*.

Find the value of *X*.

A)43 B)53 C)35 D)33

10. 

How many triangles are in the above picture?

A)6 B)7 C)8 D)9

Test 2

1. The sum of two consecutive odd integers is equal to 16. What is the product of the two integers?

A)60 B)67 C)63 D)72

2. The product of two consecutive odd integers is equal to 35. What is the sum of the two integers?

A)5 B)10 C)11 D)12

3. What is the product of all the odd integers strictly between 2 and 9?

A)105 B)174 C)123 D)172

4. What is the product of all the odd prime digits that appear between 20 and 30?

A)102 B)104 C)105 D)108

5. What is the next prime number that comes after 29?

A)30 B)31 C)35 D)37

6. What is the product of the smallest prime number and smallest positive two digit number?

A)9 B)10 C)11 D)22

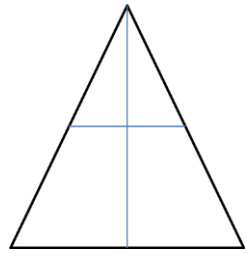
7. How many prime numbers are there less than 15?

A)6 B)7 C)8 D)19

8. $3\triangle \rightarrow 10, 4\triangle \rightarrow 17, 2\triangle \rightarrow 5, 7\triangle \rightarrow ?$

A)44 B)46 C)49 D)50

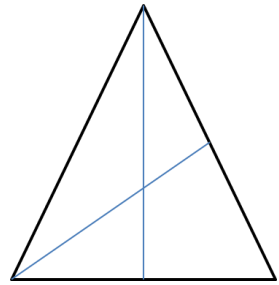
9.



How many triangles are in the above picture?

A)9 B)8 C)6 D)5

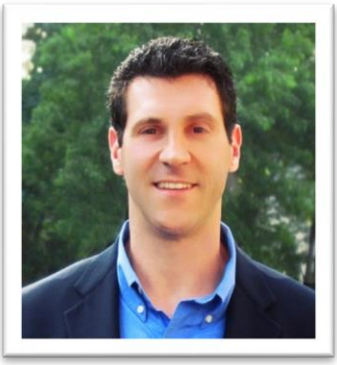
10.



How many triangles are in the above picture?

A)8 B)9 C)10 D)11

About the Authors



Dr. Steve Warner earned his Ph.D. at Rutgers University in Mathematics, and he currently works as an Associate Professor at Hofstra University. Dr. Warner has over 15 years of experience in general math tutoring and over 10 years of experience in SAT math tutoring. He has tutored students both individually and in group settings and has published several math prep books for the SAT, ACT and AP Calculus exams.

Tayyip Oral graduated from Qafqaz University in Azerbaijan in 1998 with a Bachelor's degree in Engineering, and he received an MBA from the same university in 2010. Tayyip is an educator who has written several books related to math and intelligence questions. He has previously taught math and IQ classes at Baku Araz preparatory school for 13 years.

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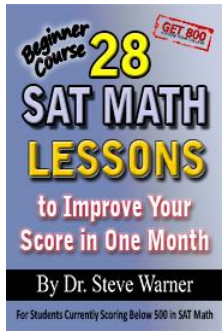

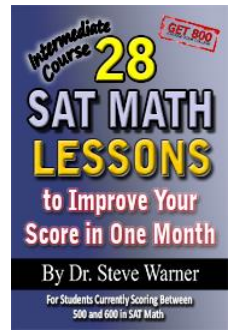

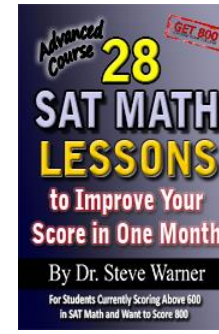

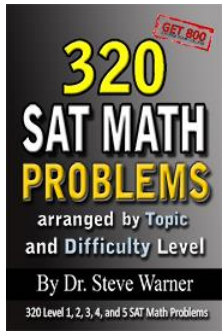

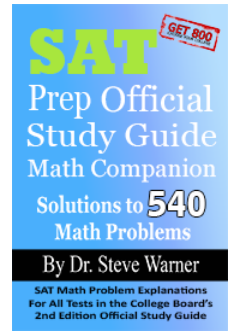

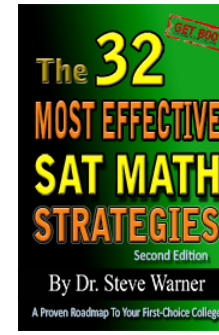

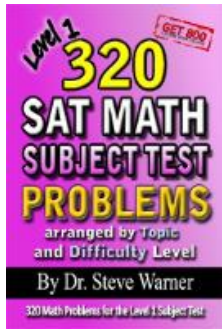

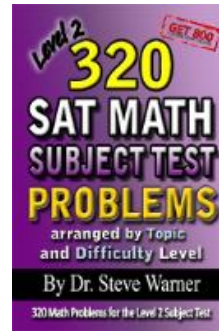

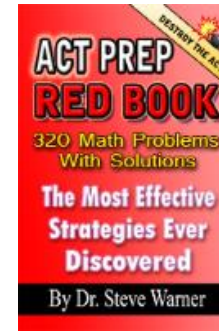

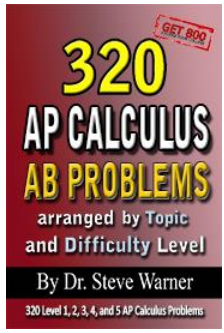

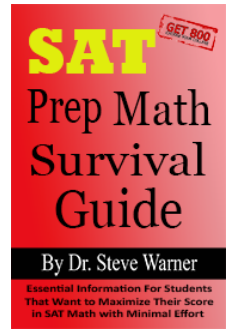

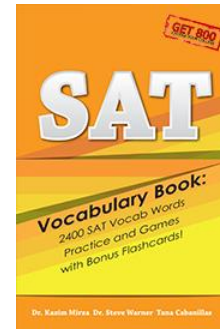

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