# AFOQT Mathematics Workbook 2018 - 2019

A Comprehensive Review and Step-by-Step Guide to Preparing for the AFOQT Math Test

Reza Nazari & Ava Ross

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**By**

Reza Nazari & Ava Ross

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## Description

***Effortless Math AFOQT Workbook 2018-2019*** provides students with the confidence and math skills they need to succeed on the AFOQT Math, providing a solid foundation of basic Math topics with abundant exercises for each topic. It is designed to address the needs of AFOQT test takers who must have a working knowledge of basic Math.

***This comprehensive workbook*** with over 2,500 sample questions and 2 complete AFOQT tests is all you need to fully prepare for the AFOQT Math. It will help you learn everything you need to ace the math section of the AFOQT.

**There are more than 2,500 Math problems with answers in this book.**

Effortless Math unique study program provides you with an in-depth focus on the math portion of the exam, helping you master the math skills that students find the most troublesome.

This workbook contains most common sample questions that are most likely to appear in the mathematics section of the AFOQT.

Inside the pages of this comprehensive Workbook, students can learn basic math operations in a structured manner with a complete study program to help them understand essential math skills. It also has many exciting features, including:

- Dynamic design and easy-to-follow activities
- A fun, interactive and concrete learning process
- Targeted, skill-building practices
- Fun exercises that build confidence
- Math topics are grouped by category, so you can focus on the topics you struggle on
- All solutions for the exercises are included, so you will always find the answers
- 2 Complete AFOQT Math Practice Tests that reflect the format and question types on AFOQT

***Effortless Math AFOQT Workbook*** is an incredibly useful tool for those who want to review all topics being covered on the AFOQT test. It efficiently and effectively reinforces learning outcomes through engaging questions and repeated practice, helping you to quickly master basic Math skills.



## About the Author

**Reza Nazari** is the author of more than 100 Math learning books including:
**– Math and Critical Thinking Challenges:** For the Middle and High School Student
**– AFOQT Math in 30 Days.**
**– AFOQT Math Workbook 2018 – 2019**
**– Effortless Math Education Workbooks**
**– and many more Mathematics books …**

Reza is also an experienced Math instructor and a test–prep expert who has been tutoring students since 2008. Reza is the founder of Effortless Math Education, a tutoring company that has helped many students raise their standardized test scores—and attend the colleges of their dreams. Reza provides an individualized custom learning plan and the personalized attention that makes a difference in how students view math.

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# CHAPTER 1: Whole Numbers

**Math Topics that you'll learn today:**

- ✓ Place Value
- ✓ Rounding
- ✓ Whole Number Addition and Subtraction
- ✓ Whole Number Multiplication and Division
- ✓ Rounding and Estimates
- ✓ Comparing Numbers

"If people do not believe that mathematics is simple, it is only because they do not realize how complicated life is." — John von Neumann

# Place Value

## Helpful Hints

The value of the place, or position, of a digit in a number.

For the number 3,684.26

**Decimal Place Value Chart**

| Millions | Hundred thousands | Ten thousands | Thousands | Hundreds | Tens | Ones | Decimal point | Tenths | Hundredths | Thousandths | Ten-thousandths | Hundred thousandths | Millionths |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3 | 6 | 8 | 4 | . | 2 | 6 | | | | |

**Example:**

In 456, the 5 is in "tens" position.

***Write each number in expanded form.***

1) Thirty–five 30 + 5

2) Sixty–seven ___ + ___

3) Forty–two ___ + ___

4) Eighty–nine ___ + ___

5) Ninety–one ___ + ___

***Circle the correct one.***

6) The 2 in 72 is in the ones place tens place hundreds place

7) The 6 in 65 is in the ones place tens place hundreds place

8) The 2 in 342 is in the ones place tens place hundreds place

9) The 5 in 450 is in the ones place tens place hundreds place

10) The 3 in 321 is in the ones place tens place hundreds place

## Rounding

**Helpful Hints**

– Rounding is putting a number up or down to the nearest whole number or the nearest hundred, etc.

**Example:**

64 rounded to the nearest ten is 60, because 64 is closer to 60 than to 70.

***Round each number to the underlined place value.***

1) 9̲72
2) 2,9̲95
3) 3̲64
4) 8̲1
5) 5̲5
6) 3̲34
7) 1,2̲03
8) 9.5̲7
9) 7.4̲84
10) 9.1̲4
11) 3̲9
12) 9̲,123
13) 3,45̲2
14) 5̲69
15) 1,2̲30
16) 9̲8
17) 9̲3
18) 3̲7
19) 49̲3
20) 2,9̲23
21) 9̲,845
22) 55̲5
23) 9̲39
24) 6̲9

# Whole Number Addition and Subtraction

| Helpful Hints | | Example: |
|---|---|---|
| | 1– Line up the numbers. | |
| | 2– Start with the unit place. (ones place) | 231 + 120 = 351 |
| | 3– Regroup if necessary. | 292 – 90 = 202 |
| | 4– Add or subtract the tens place. | |
| | 5– Continue with other digits. | |

***Solve.***

1) A school had 891 students last year. If all last year students and 338 new students have registered for this year, how many students will there be in total?

2) Alice has just started her first job after graduating from college. Her yearly income is $33,000 per year. Alice's father income is $56,000 per year and her mother's income is $49,000. What is yearly income of Alice and her parent altogether?

3) Tom had $895 dollars in his saving account. He gave $235 dollars to his sister, Lisa. How much money does he have left?

4) Emily has 830 marbles, Daniel has 970 marbles, and Ethan has 230 marbles less than Daniel. How many marbles do they have in all?

***Find the missing number.***

5) 890 – ..... = 300

6) 1000 – ..... = 200

7) ..... – 4000 = 92000

8) 60000 – 51000 = .....

9) 3400 – ..... = 3200

10) 33000 – 5000 = .....