5 Full-Length Accuplacer Next Generation Math Practice Tests

The Practice You Need to Ace the Accuplacer Next Generation Math Test

2019

Reza Nazari & Ava Ross

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By

Reza Nazari & Ava Ross

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Description

5 Full-Length Accuplacer Next Generation Math Practice Tests, which reflects the 2019 and 2020 test guidelines and topics, is designed to help you hone your math skills, overcome your exam anxiety, and boost your confidence -- and do your best to ace the Accuplacer Math Test. The realistic and full-length Accuplacer Math tests show you how the test is structured and what math topics you need to master. The practice test questions are followed by answer explanations to help you find your weak areas, learn from your mistakes, and raise your Accuplacer Next Generation Math score.

The surest way to succeed on Accuplacer Math Test is with intensive practice in every math topic tested-- and that's what you will get in ***5 Full-Length Accuplacer Next Generation Math Practice Tests***. This Accuplacer Math new edition has been updated to replicate questions appearing on the most recent Accuplacer Math tests. This is a precious learning tool for Accuplacer Math test takers who need extra practice in math to improve their Accuplacer Math score. After taking the Accuplacer Math practice tests in this book, you will have solid foundation and adequate practice that is necessary to succeed on the Accuplacer Next Generation Math test. **This book is your ticket to ace the Accuplacer Next Generation Math!**

5 Full-Length Accuplacer Next Generation Math Practice Tests contains many exciting and unique features to help you improve your test scores, including:

- Content 100% aligned with the 2019 - 2020 Accuplacer Next Generation test
- Written by Accuplacer Next Generation Math tutors and test experts
- Complete coverage of all Accuplacer Next Generation Math concepts and topics which you will be tested
- Detailed answers and explanations for every Accuplacer Next Generation Math practice questions to help you learn from your mistakes
- 5 full-length practice tests (featuring new question types) with detailed answers

This Accuplacer Next Generation Math book and other Effortless Math Education books are used by thousands of students each year to help them review core content areas, brush-up in math, discover their strengths and weaknesses, and achieve their best scores on the Accuplacer Next Generation test.

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
– GRE Math in 30 Days
– ASVAB 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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Next Generation Accuplacer Test Review

The Next-Generation ACCUPLACER test is an assessment system for measuring students' readiness for college courses in reading, writing, and mathematics. The test is a multiple–choice format and is used to precisely placing you at the correct level of introductory classes.

The Next-Generation ACCUPLACER uses the computer–adaptive technology and the questions you see are based on your skill level. Your response to each question drives the difficulty level of the next question.

There are five sub sections on the Accuplacer test:

- ✓ Arithmetic (20 questions)
- ✓ Quantitative Reasoning, Algebra, And Statistics (QAS) (20 questions)
- ✓ Advanced Algebra and Functions (20 questions)
- ✓ Reading (20 questions)
- ✓ Writing (25 questions)

Accuplacer does NOT permit the use of personal calculators on the Math portion of placement test. Accuplacer expects students to be able to answer certain questions without the assistance of a calculator. Therefore, they provide an onscreen calculator for students to use on some questions.

In this book, there are five complete Accuplacer Next Generation Mathematics Tests. Take these tests to see what score you'll be able to receive on a real Accuplacer test.

Good luck!

Time to refine your Math skill with a practice test

Take a practice Accuplacer Math test to simulate the test day experience. After you've finished, score your test using the answer keys.

Before You Start

- You'll need a pencil and a calculator to take the test.
- For each question, there are four possible answers. Choose which one is best.
- It's okay to guess. There is no penalty for wrong answers.
- After you've finished the test, review the answer key to see where you went wrong.

Good Luck!

Next Generation Accuplacer Mathematics Practice Test 1

2019 - 2020

Section 1: Arithmetic

(No Calculator)

20 questions

Total time for this section: No time limit.

You may NOT use a calculator on this Section.

***(On a real Accuplacer test, there is* an onscreen calculator to use on some questions.)**

1) Which of the following expression is not equal to 6?
   A. $24 \times \frac{1}{4}$
   B. $2 \times \frac{6}{2}$
   C. $5 \times \frac{6}{5}$
   D. $6 \times \frac{1}{6}$

2) What is the value of 3.56×7.8?
   A. 27.768
   B. 28.08
   C. 277.68
   D. 280.80

3) 20% of what number is equal to 85?
   A. 11.25
   B. 112.50
   C. 200
   D. 425

4) Which of the following is greater than $\frac{12}{8}$?
   A. $\frac{1}{2}$
   B. $\frac{5}{2}$
   C. $\frac{3}{4}$
   D. 1

5) A taxi driver earns $\$10$ per 1-hour work. If he works 10 hours a day and in 1 hour he uses 2-liters petrol with price $\$1$ for 1-liter. How much money does he earn in one day?
   A. $\$90$
   B. $\$88$
   C. $\$80$
   D. $\$60$

6) Which of the following is closest to 5.03?
   A. 6
   B. 5.5
   C. 5
   D. 5.4

7) The price of a sofa is decreased by 15% to $\$476$. What was its original price?
   A. $\$480$
   B. $\$520$
   C. $\$560$
   D. $\$600$

8) If 40% of a class are girls, and 25% of girls play tennis, what percent of the class play tennis?
   A. 10%
   B. 15%
   C. 20%
   D. 40%

9) If 60% of A is 20% of B, then B is what percent of A?
   A. 3%
   B. 30%
   C. 200%
   D. 300%

10) The price of a car was $\$20{,}000$ in 2014, $\$16{,}000$ in 2015 and $\$12{,}800$ in 2016. What is the rate of depreciation of the price of car per year?
   A. 15%
   B. 20%
   C. 25%
   D. 30%

11) A bank is offering 4.5% simple interest on a savings account. If you deposit $\$8{,}000$, how much interest will you earn in five years?
   A. $\$360$
   B. $\$720$
   C. $\$1{,}800$
   D. $\$3{,}600$

12) Which of the following could be the value of x if $\frac{6}{8} + x > 2$?
   A. $\frac{1}{3}$
   B. $\frac{3}{5}$
   C. $\frac{6}{5}$
   D. $\frac{4}{3}$

13) 25 is What percent of 20?

A. 20%
B. 25%
C. 125%
D. 150%

14) What is the value of $2.85 + 0.045 + 0.1265$?

A. 2.2565
B. 3.0215
C. 3.215
D. 3.4265

15) How long does a 420–miles trip take moving at 50 miles per hour (mph)?

A. $4\ hours$
B. $6\ hours\ and\ 24\ minutes$
C. $8\ hours\ and\ 24\ minutes$
D. $8\ hours\ and\ 30\ minutes$

16) Which of the following lists shows the fractions in order from least to greatest?

$$\frac{3}{4}, \frac{2}{7}, \frac{3}{8}, \frac{5}{11}$$

A. $\frac{3}{8}, \frac{2}{7}, \frac{3}{4}, \frac{5}{11}$
B. $\frac{2}{7}, \frac{5}{11}, \frac{3}{8}, \frac{3}{4}$
C. $\frac{2}{7}, \frac{3}{8}, \frac{5}{11}, \frac{3}{4}$
D. $\frac{3}{8}, \frac{2}{7}, \frac{5}{11}, \frac{3}{4}$

17) $\frac{4}{5} - \frac{3}{5} = ?$

A. 0.35
B. 0.3
C. 0.2
D. 0.025

18) Sophia purchased a sofa for $\$530.40$. The sofa is regularly priced at $\$624$. What was the percent discount Sophia received on the sofa?

A. 12%
B. 15%
C. 20%
D. 25%

19) A rope weighs 600 grams per meter of length. What is the weight in kilograms of 12.2 meters of this rope? ($1\ kilograms = 1000\ grams$)

A. 0.0732
B. 0.732
C. 7.32
D. 73.20

20) When number $91{,}501$ is divided by 305, the result is closest to?

A. 3
B. 30
C. 300
D. 350

STOP: This is the End of Section 1 of test 1.

Next Generation Accuplacer Mathematics Practice Test 1

2019 - 2020

Section 2: Quantitative Reasoning, Algebra, And Statistics

(No Calculator)

20 questions

Total time for this section: No time limit.

You may NOT use a calculator on this Section.

***(On a real Accuplacer test, there is* an onscreen calculator to use on some questions.)**

1) When a number is subtracted from 24 and the difference is divided by that number, the result is 3. What is the value of the number?
   A. 2
   B. 4
   C. 6
   D. 12

2) An angle is equal to one ninth of its supplement. What is the measure of that angle?
   A. 18
   B. 24
   C. 36
   D. 45

3) John traveled $150\ km$ in 6 hours and Alice traveled $180\ km$ in 4 hours. What is the ratio of the average speed of John to average speed of Alice?
   A. $3:2$
   B. $2:3$
   C. $5:9$
   D. $5:6$

4) If $\frac{30}{A}+1=7$, then $30+A=?$
   A. 2
   B. 7
   C. 35
   D. 40

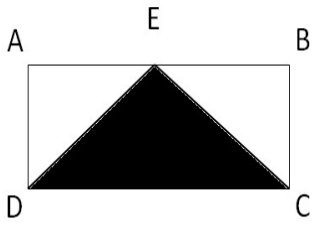
5) Right triangle ABC has two legs of lengths $9\ cm$ (AB) and $12\ cm$ (AC). What is the length of the third side (BC)?
   A. $6\ cm$
   B. $8\ cm$
   C. $14\ cm$
   D. $15\ cm$

6) The area of a circle is less than 64π. Which of the following can be the circumference of the circle?
   A. 12π
   B. 16π
   C. 24π
   D. 32π

7) The width of a box is one third of its length. The height of the box is one third of its width. If the length of the box is $27\ cm$, what is the volume of the box?
   A. $81\ cm^3$
   B. $162\ cm^3$
   C. $243\ cm^3$
   D. $729\ cm^3$

8) How many possible outfit combinations come from six shirts, three slacks, and five ties?
   A. 15
   B. 18
   C. 30
   D. 90

9) If the area of the following rectangular $ABCD$ is 100, and E is the midpoint of AB, what is the area of the shaded part
   A. 25
   B. 45
   C. 50
   D. 100



10) What is the slope of a line that is perpendicular to the line $2x - 4y = 24$?
   A. -2
   B. 2
   C. $-\frac{1}{2}$
   D. $\frac{1}{2}$

11) Two third of 18 is equal to $\frac{2}{5}$ of what number?
   A. 12
   B. 20
   C. 30
   D. 60

12) A boat sails 40 miles south and then 30 miles east. How far is the boat from its start point?
   A. $45\ miles$
   B. $50\ miles$
   C. $60\ miles$
   D. $70\ miles$

13) The ratio of boys and girls in a class is $4:7$. If there are 44 students in the class, how many more boys should be enrolled to make the ratio $1:1$?

A. 8
B. 10
C. 12
D. 16

14) The score of Emma was half as that of Ava and the score of Mia was twice that of Ava. If the score of Mia was 60, what is the score of Emma?

A. 12
B. 15
C. 20
D. 30

15) A bag contains 18 balls: two green, five black, eight blue, a brown, a red and one white. If 17 balls are removed from the bag at random, what is the probability that a brown ball has been removed?

A. $\frac{1}{9}$
B. $\frac{1}{6}$
C. $\frac{16}{17}$
D. $\frac{17}{18}$

16) The average of five consecutive numbers is 38. What is the smallest number?

A. 38
B. 36
C. 34
D. 12

17) The average weight of 18 girls in a class is $60\ kg$ and the average weight of 32 boys in the same class is $62\ kg$. What is the average weight of all the 50 students in that class?

A. 60
B. 61.28
C. 61.68
D. 62.90

18) What is the median of these numbers? $4, 9, 13, 8, 15, 18, 5$

A. 8
B. 9
C. 13
D. 15

19) To paint a wall with the area of $57m^2$, how many liters of paint do we need if each liter of paint is enough to paint a wall with dimension of $80\ cm \times 95\ cm$?

A. 50
B. 75
C. 100
D. 150

20) In 1999, the average worker's income increased $\$2{,}000$ per year starting from $\$24{,}000$ annual salary. Which equation represents income greater than average? (I = income, x = number of years after 1999)

A. $I > 2000\,x + 24000$
B. $I > -2000\,x + 24000$
C. $I < -2000\,x + 24000$
D. $I < 2000\,x - 24000$

STOP: This is the End of Section 2 of test 1.

Next Generation Accuplacer Mathematics Practice Test 1

2019 - 2020

Section 3: Advanced Algebra and Functions

(Calculator)

20 questions

Total time for this section: No time limit.

You may use a calculator on this Section.

***(On a real Accuplacer test, there is* an onscreen calculator to use on some questions.)**