

320 act math problems arranged by topic and difficulty level

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320 ACT Math Problems Arranged by Topic and Difficulty Level

The ACT is a standardized test used for college admissions, and the math section is one of the most important parts of the exam. To prepare for the math section, it is important to practice solving problems from all of the different topics that are covered on the test.

The ACT math problems are divided into four main topics: Algebra, Geometry, Statistics and Probability, and Trigonometry. Each topic is further divided into three difficulty levels: Easy, Medium, and Hard. This article provides a list of 320 ACT math problems arranged by topic and difficulty level, along with the answers to each problem.

Algebra

- Easy: Solve for x : $2x + 5 = 11$
- Medium: Simplify the expression: $(x + 2)(x - 3)$
- Hard: Solve for x : $x^2 - 5x + 6 = 0$

Geometry

- Easy: Find the area of a rectangle with a length of 5 cm and a width of 3 cm.
- Medium: Find the volume of a cube with a side length of 4 cm.
- Hard: Find the surface area of a sphere with a radius of 5 cm.

Statistics and Probability

- Easy: Find the mean of the following numbers: 1, 3, 5, 7, 9
- Medium: Find the probability of rolling a 6 on a six-sided die.
- Hard: Find the standard deviation of the following numbers: 10, 12, 14, 16, 18

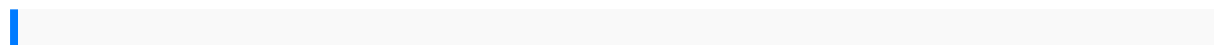
Trigonometry

- Easy: Find the sine of a 30-degree angle.
- Medium: Find the cosine of a 45-degree angle.
- Hard: Find the tangent of a 60-degree angle.

Answers

- Easy: $x = 3$
- Medium: $x(x - 3)$
- Hard: $x = 2$ or $x = 3$
- Easy: 15 cm^2
- Medium: 64 cm^3
- Hard: $100? \text{ cm}^2$
- Easy: 5
- Medium: $1/6$
- Hard: 2.83
- Easy: $1/2$
- Medium: $?(2)/2$
- Hard: $?(3)$

By practicing these problems, you can improve your skills in each of the different topics covered on the ACT math section. This will help you to improve your overall score on the test and increase your chances of getting into the college of your choice.



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