

ACT MATH FORMULA REVIEW

Roots, Powers and Exponents

$A^0 = 1$ $A^1 = A$ $\sqrt[n]{\frac{a}{b}} = \frac{\sqrt[n]{a}}{\sqrt[n]{b}}$ $\sqrt{ab} = \sqrt{a}\sqrt{b}$ $A^m \cdot A^n = A^{m+n}$ $(A^m)^n = A^{m \cdot n}$ $\frac{A^m}{A^n} = A^{m-n}$ $A^{-m} = \frac{1}{A^m}$ $\frac{m}{n} = \sqrt[n]{A^m}$	$\log_a a^x = x$ ($\log_2 8 = \log_2 2^3 = 3$) $\log_a(xy) = \log_a x + \log_a y$ $\log_a\left(\frac{x}{y}\right) = \log_a x - \log_a y$ Quadratic Formula $Ax^2 + bx + c = 0$ $\Rightarrow x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ Distance Time Formula $\text{Speed } (v) = \frac{\text{Distance } (d)}{\text{Time } (t)} \quad v = \frac{d}{t}$
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Linear Equations

$$y = mx + b$$

y intercept is b (x=0)

x intercept is $mx + b = 0$ (y=0)

The slope is $m = \frac{y_2 - y_1}{x_2 - x_1}$

The line with a perpendicular slope has an opposite reciprocal of m: $-\frac{1}{m}$

Distance Formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Midpoint Formula $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

Prime numbers

Can be divided only by 1 and themselves.

First ten primes: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29

(0 and 1 are not primes)

Perfect squares

Commonly used on the ACT:

$11^2=121$; $12^2=144$; $13^2=169$;

$14^2=196$; $15^2=225$; $16^2=256$; $25^2=625$

Irrational numbers

Cannot be written as a ratio of

two integers: Examples π , $\sqrt{2}$, $\sqrt{3}$, etc.

$\pi \cdot \pi = \pi^2$ (irrational); $\sqrt{2} \cdot \sqrt{2} = 2$ (rational!)

Imaginary Numbers

When squared, gives a negative result

$i + i = -1$ $i = \sqrt{-1}$ $\sqrt{(-x)} = i\sqrt{x}$

$i^2 = i \cdot i = -1$; $i^3 = -i$; $i^4 = 1$; $i^5 = i^4$

Mean: Average || Median: Middle number

Mode: Most frequent number

Weighted average: Add

the values for each

occurrences; divide

by total occurrences.

CIRCLE

Area = πr^2

Formula:

$x^2 + y^2 = r^2$

$(x-a)^2 + (y-b)^2 = r^2$

$\rightarrow$ Midpoint = (a,b); radius = r

Perimeter = $2\pi r$



CYLINDER:

Area: $\pi r^2 + \pi r^2 + h \cdot 2\pi r$

Volume: $\pi r^2 \cdot h$

$a+b = y = Nx$

$y =$ inscribed angle = Nx

$y = 90^\circ \Rightarrow x = 180^\circ = d$

$\angle$ angles are identical

$\angle$ angles are identical

$\angle$ angles are identical

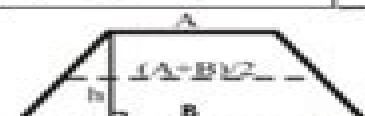
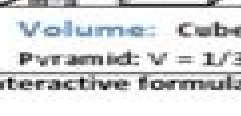
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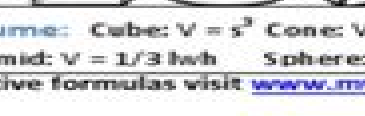
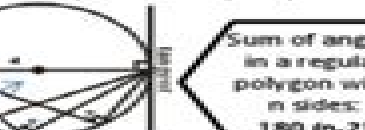
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Area of a trapezoid:

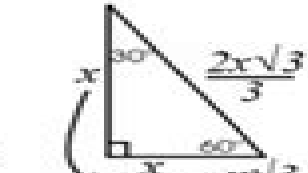
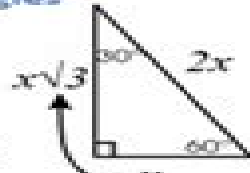
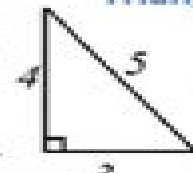
Half-point line: $(A+B)/2 \cdot h$



Triangles



Area = $\frac{1}{2} b \cdot h$



Pythagorean Theory:

$$a^2 + b^2 = c^2$$

3, 4, 5

5, 12, 13

6, 8, 10

7, 24, 25

8, 15, 17

Isosceles triangle:



Equilateral triangle:



Sum of angles in a regular polygon with n sides: $180(n-2)$

TRIGONOMETRY: SOH-CAH-TOA

$$\sin \theta = \frac{\text{Opp}}{\text{Hyp}}$$

$$\cos \theta = \frac{\text{Adj}}{\text{Hyp}}$$

$$\tan \theta = \frac{\text{Opp}}{\text{Adj}}$$

$$\csc \theta = \frac{\text{Hyp}}{\text{Opp}} = \frac{1}{\sin}$$

$$\sec \theta = \frac{\text{Hyp}}{\text{Adj}} = \frac{1}{\cos}$$

$$\cot \theta = \frac{\text{Adj}}{\text{Opp}} = \frac{1}{\tan}$$



Volume: Cube: $V = s^3$ Cone: $V = \frac{1}{3} \pi r^2 h$

Pyramid: $V = \frac{1}{3} lwh$ Sphere: $V = \frac{4}{3} \pi r^3$

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1. Understanding the eBook Act Math Study Guide Formulas
 - The Rise of Digital Reading Act Math Study Guide Formulas
 - Advantages of eBooks Over Traditional Books
2. Identifying Act Math Study Guide Formulas
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Act Math Study Guide Formulas
 - User-Friendly Interface
4. Exploring eBook Recommendations from Act Math Study Guide Formulas
 - Personalized Recommendations
 - Act Math Study Guide Formulas User Reviews and Ratings
 - Act Math Study Guide Formulas and Bestseller Lists
5. Accessing Act Math Study Guide Formulas Free and Paid eBooks
 - Act Math Study Guide Formulas Public Domain eBooks
 - Act Math Study Guide Formulas eBook Subscription Services
 - Act Math Study Guide Formulas Budget-Friendly Options
6. Navigating Act Math Study Guide Formulas eBook Formats

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- Act Math Study Guide Formulas Compatibility with Devices
- Act Math Study Guide Formulas Enhanced eBook Features
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Act Math Study Guide Formulas
- 9. Balancing eBooks and Physical Books Act Math Study Guide Formulas
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Act Math Study Guide Formulas
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Act Math Study Guide Formulas
 - Setting Reading Goals Act Math Study Guide Formulas
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Act Math Study Guide Formulas
 - Fact-Checking eBook Content of Act Math Study Guide Formulas
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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