

Math

Common Core State Standards

7th Grade

Proportions, percents, integer operations, linear equations, inequalities, geometry, probability & more!

RATIOS & PROPORTIONS

Ratios: A comparison of two numbers or measurements

Ratio: A ratio in which the two terms are in different units

Unit rate: A rate that is expressed as a quantity of one (for example, miles per hour)

EX: Bill ran 10 laps around the high school track in 12 minutes. How many laps can he run in 45 minutes? First, find the unit rate:

$$\frac{10 \text{ laps}}{12 \text{ minutes}} = \frac{5}{6} \text{ laps per minute}$$

Bill can run $\frac{5}{6}$ laps per minute. Use the unit

rate to solve: $\frac{5}{6} \times 45 = \frac{225}{6} = 37.5$ laps

Bill can run 37.5 laps in 45 minutes.

Proportions: Two equal ratios

EX: Solve for n to complete the proportion.

$$\begin{aligned} \frac{6}{15} &= \frac{n}{25} \\ (1.5)(n) &= (6)(25) \\ 1.5n &= 150 \\ \frac{1.5n}{1.5} &= \frac{150}{1.5} \\ n &= 10 \end{aligned}$$

EX: Tory accumulated 6 vacation days after working for 9 months. How many vacation days will Tory have after working for 2 years?

$$\begin{aligned} \frac{6}{9} &= \frac{x}{24} \\ 9x &= 144 \\ \frac{9x}{9} &= \frac{144}{9} \\ x &= 16 \end{aligned}$$

Tory will have 16 vacation days after working for 2 years.

Tip!

Use the unit rate to make sure that the units convert correctly, too!

Proportional Relationships among Quantities

Ratios of input and corresponding output values are proportional

y	1	2	3	4	5	6
x	2	4	6	8	10	12

$\frac{y}{x}$	$\frac{1}{2}$	$\frac{2}{4}$	$\frac{3}{6}$	$\frac{4}{8}$	$\frac{5}{10}$	$\frac{6}{12}$
x	2	4	6	8	10	12

Constant of proportionality: $y = kx$; y varies in direct proportion to x , and k is the constant of proportionality

EX: At a constant speed, a car travels 50 meters in 2 seconds. How long would it take the car to travel 375 meters?

Elapsed Time	Distance Traveled	Speed (Ratio in m/s)
1 second	25 meters	25
2 seconds	50 meters	25
3 seconds	75 meters	25

Time (t) and distance (d) are directly proportional
 $\frac{d}{t} = \text{constant } (k)$

25 meters per second is the constant speed

$$y = kx$$

$$375 = 25x$$

$$\frac{375}{25} = \frac{25}{25}x$$

$$15 = x$$

It will take the car 15 seconds to travel 375 meters.

Tip!

The graph of a directly proportional relationship will always be a straight line and must pass through the origin.



Percent Problems

Formula: $\frac{\text{percent}}{100} = \frac{\text{part}}{\text{whole}}$

EX: Within the past year, 25% of the 16 stores in a mall have closed. How many stores closed in the mall?

$$\begin{aligned} \frac{25}{100} &= \frac{x}{16} \\ 100x &= 400 \\ \frac{100x}{100} &= \frac{400}{100} \\ x &= 4 \end{aligned}$$

Four stores closed in the mall during the past year.

Gratuities

EX: A group of friends went out to dinner. Their bill was \$233. They want to leave an 18% tip for the waiter. How much money should they leave for the tip?

$$\begin{aligned} \text{Use a proportion: } \frac{18}{100} &= \frac{x}{233} \\ 100x &= 4194 \\ \frac{100x}{100} &= \frac{4194}{100} \\ x &= 41.94 \end{aligned}$$

The friends should leave a tip of \$41.94.

Percent Increase or Decrease

EX: The dues in a neighborhood increased from \$24 per month to \$30 per month. Find the percent of increase.

Subtract to find the amount of increase:
 $30 - 24 = 6$

Use a proportion:

$$\begin{aligned} \frac{\text{difference}}{\text{original amount}} &= \frac{x}{100} \\ \frac{6}{24} &= \frac{x}{100} \\ 24x &= 600 \\ \frac{24x}{24} &= \frac{600}{24} \\ x &= 25 \end{aligned}$$

There was a 25% increase.

EX: Between 3:00 p.m. and 6:00 p.m., the temperature dropped from 88 degrees to 60 degrees. Find the percent of decrease.

Subtract to find the amount of decrease:
 $88 - 60 = 28$

Use a proportion:

$$\begin{aligned} \frac{28}{88} &= \frac{x}{100} \\ 88x &= 2800 \\ \frac{88x}{88} &= \frac{2800}{88} \\ x &= 31.8 \end{aligned}$$

The temperature decreased by about 31.8%.

Simple Interest

EX: Carmen earns 3% a year on money in her savings account. She had \$354 in her account all year. How much interest did she earn?

$$\begin{aligned} \frac{3}{100} &= \frac{x}{354} \\ 100x &= 1062 \\ \frac{100x}{100} &= \frac{1062}{100} \\ x &= 10.62 \end{aligned}$$

Carmen earned \$10.62 in interest.

Tip!

You can also use the formula $i = prt$, where:
 i = total interest paid
 p = principal (money saved)
 r = rate (percent rate)
 t = time, expressed in years

For the previous example,
 $i = \$354 \cdot .03 \cdot 1 = \10.62

Georgia Common Core Math 7th Grade Test

Julia Schneider



Georgia Common Core Math 7th Grade Test:

Unveiling the Magic of Words: A Review of "**Georgia Common Core Math 7th Grade Test**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Georgia Common Core Math 7th Grade Test**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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Table of Contents Georgia Common Core Math 7th Grade Test

1. Understanding the eBook Georgia Common Core Math 7th Grade Test
 - The Rise of Digital Reading Georgia Common Core Math 7th Grade Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Georgia Common Core Math 7th Grade Test
 - 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 Georgia Common Core Math 7th Grade Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Georgia Common Core Math 7th Grade Test
 - Personalized Recommendations
 - Georgia Common Core Math 7th Grade Test User Reviews and Ratings
 - Georgia Common Core Math 7th Grade Test and Bestseller Lists

5. Accessing Georgia Common Core Math 7th Grade Test Free and Paid eBooks
 - Georgia Common Core Math 7th Grade Test Public Domain eBooks
 - Georgia Common Core Math 7th Grade Test eBook Subscription Services
 - Georgia Common Core Math 7th Grade Test Budget-Friendly Options
6. Navigating Georgia Common Core Math 7th Grade Test eBook Formats
 - ePub, PDF, MOBI, and More
 - Georgia Common Core Math 7th Grade Test Compatibility with Devices
 - Georgia Common Core Math 7th Grade Test Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Georgia Common Core Math 7th Grade Test
 - Highlighting and Note-Taking Georgia Common Core Math 7th Grade Test
 - Interactive Elements Georgia Common Core Math 7th Grade Test
8. Staying Engaged with Georgia Common Core Math 7th Grade Test
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Georgia Common Core Math 7th Grade Test
9. Balancing eBooks and Physical Books Georgia Common Core Math 7th Grade Test
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Georgia Common Core Math 7th Grade Test
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Georgia Common Core Math 7th Grade Test
 - Setting Reading Goals Georgia Common Core Math 7th Grade Test
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Georgia Common Core Math 7th Grade Test
 - Fact-Checking eBook Content of Georgia Common Core Math 7th Grade Test
 - 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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