

# WORD PROBLEMS (CONTINUED)

## RATIO/PERCENTAGE PROBLEMS

### Translation

Let  $Q_1$  denote Quantity 1, and  $Q_2$  denote Quantity 2.

### Statement

$Q_1$  is 20% of  $Q_2$ .

$Q_1$  is 20% more than  $Q_2$ .

$Q_1$  is 20% less than  $Q_2$ .

The ratio of  $Q_1$  and  $Q_2$  is 3:4.

$Q_1$  is decreased by 20%.

$Q_1$  is increased by 20%.

After adding 5 to  $Q_1$  and subtracting 4 from  $Q_2$ , the ratio of the two new quantities is 6:7.

### Translated Statement

$$Q_1 = 0.2Q_2$$

$$Q_1 = (1 + 0.2)Q_2 = 1.2Q_2$$

$$Q_1 = (1 - 0.2)Q_2 = 0.8Q_2$$

$$\frac{Q_1}{Q_2} = \frac{3}{4} \text{ or } 4Q_1 = 3Q_2$$

$$Q_1(1 - 0.2) = 0.8Q_1$$

$$Q_1(1 + 0.2) = 1.2Q_1$$

$$\frac{Q_1 + 5}{Q_2 - 4} = \frac{6}{7}$$

**Ex:** In a community college, students are only allowed to choose from three majors: English, Math, and Art. The ratio of English, Math, and Art majors is 6:7:4. If there are 2,400 more Math majors than Art majors, how many students are in the community college?

**Let**  $E$ ,  $M$ , and  $A$  denote the students majoring in English, Math, and Art. Let  $T$  denote the total. From the problem, we have:

$$E:M:A = 6:7:4$$

$$M - A = 2400$$

$$T = E + M + A$$

$$\text{Answer: } E = 6x \quad M = 7x \quad A = 4x$$

$$M - A = 7x - 4x = 3x = 2400$$

$$x = 800$$

$$T = E + M + A = 6x + 7x + 4x = 17x = 13600$$

### Relationship between Percentage and Ratio

Essentially, ratios and percentages convey the equivalent information. That is given the ratio between  $Q_1$  and  $Q_2$ , we can find what percent  $Q_1$  is of  $Q_2$ , what percent is  $Q_1$  more/less than  $Q_2$ . Given  $Q_1$  is  $x\%$  more/less than  $Q_2$ , we can find the ratio of the two quantities.

**Ex:** If  $Q_1:Q_2 = 3:4$ , what percent is  $Q_1$  less than  $Q_2$ ?

$$\frac{Q_1}{Q_2} = \frac{3}{4} \Rightarrow Q_1 = \frac{3}{4}Q_2 = 0.75Q_2 = (1 - 0.25)Q_2$$

$Q_1$  is 25% less than  $Q_2$ .

**Ex:** If  $Q_1$  is 10% more than  $Q_2$ , what is the ratio of  $Q_1$  to  $Q_2$ ?

$$Q_1 = (1 + 0.1)Q_2 = 1.1Q_2 = \frac{11}{10}Q_2 \Rightarrow \frac{Q_1}{Q_2} = \frac{11}{10}$$

The ratio of  $Q_1$  to  $Q_2$  is 11:10.

# QUANTITATIVE COMPARISON STRATEGIES

## PLUGGING IN NUMBERS

**Ex:** Column A:  $x^2$  Column B:  $x^4$

Let  $x = 8$ . Then column A and column B both equal to 64. Let  $x = \frac{1}{2}$ . Column A equals 0; column B equals 16. Column B is greater than column A. The relationship between the two columns cannot be determined from the information given. The answer is D.

Try to keep the numbers that are being tested small.

Common numbers to plug in:  $-2, -\frac{3}{2}, -1, -\frac{1}{2}, 0, \frac{1}{2}, 1, \frac{3}{2}, 2$

## DIFFERENCE APPROACH

Subtract B from A. Compare the result with 0. If  $A - B > 0$ , then  $A > B$ ; if  $A - B < 0$ , then  $A < B$ ; if  $A - B = 0$ , then  $A = B$ .

**Ex:** Column A:  $x^2 + 1$  Column B:  $2xy + y^2$

$$A - B = x^2 + 1 - (2xy + y^2) = x^2 + 1 - 2xy - y^2 = (x^2 - 2xy + y^2) + 1 = (x - y)^2 + 1$$

Because  $(x - y)^2 \geq 0$ , then  $(x - y)^2 + 1 > 0$ . Hence  $A - B > 0$ , and we conclude  $A > B$ . The answer is A. In general, apply this technique when multiple variables are involved. Some of the variables may be eliminated when taking the difference.

## DIVISION APPROACH

If  $A > B$ , divide A by B. Compare the result with 1. If  $\frac{A}{B} > 1$ ,

then  $A > B$ ; if  $\frac{A}{B} < 1$ , then  $A < B$ ; if  $\frac{A}{B} = 1$ , then  $A = B$ .

**Ex:** Column A: 100000 Column B:  $125 \cdot 2^8$

$\frac{A}{B} = \frac{100000}{125 \cdot 2^8} = \frac{800}{9 \cdot 2^8} = \frac{10 \cdot 80}{9 \cdot 2^8} = \frac{10 \cdot 2^3}{9 \cdot 2^8} = \frac{10}{9 \cdot 2^5} < 1$

# STATISTICS, COUNTING, AND PROBABILITY

## STATISTICS

### Average

The average of  $n$  values is defined as the sum of the  $n$  values divided by  $n$ .

The average of  $n$  evenly spaced values is equal to the sum of the smallest value and the largest value divided by 2.

**Ex:** The average of 3, 6, 9, 12, and 15 is

$$\frac{3+6+9+12+15}{5} = \frac{45}{5} = 9$$

### Median

If  $n$  values are ordered from least to greatest, the median is found as the middle value if  $n$  is odd and the sum of the two middle values divided by 2 if  $n$  is even.

The median is equal to the average for  $n$  evenly spaced values.

**Ex:** The median of 2, 4, 6, and 8 is  $\frac{4+6}{2} = 5$ .

### Mode

The mode is defined as the most frequently occurring value.

**Ex:** The mode of 1, 2, 3, 5, 6, 6, and 6 is 6.

### Range

The range is defined as the greatest value minus the least value.

**Ex:** The range of 1, 3, 4, 5, 5, 6, and 6 is  $6 - 1 = 5$ .

### Standard Deviation

The standard deviation of  $n$  values is calculated by:

- (1) Finding the average
- (2) Finding the difference between each value and the average
- (3) Squaring each of the differences
- (4) Summing the squared values
- (5) Dividing the sum by  $n$
- (6) Taking the square root of the result

**Ex:** Find the standard deviation of 2, 6, 8, 9, and 16.

(1) The average is  $\frac{2+6+8+9+16}{5} = 7$ .

$$2-7 = -5 \quad 6-7 = -1 \quad 8-7 = 1 \quad 9-7 = 2 \quad 16-7 = 9$$

$$(-5)^2 = 25 \quad (-1)^2 = 1 \quad 1^2 = 1 \quad 2^2 = 4 \quad 9^2 = 81$$

(2) and (3)  $25 + 1 + 1 + 4 + 81 = 112$

$$\frac{112}{5} = 22.4$$

(4)  $\sqrt{22.4} = 4.73$

(5) and (6)  $\sqrt{22.4} = 4.73 = 2\sqrt{14}$

## COUNTING

### Permutation with Distinct Elements

The number of ways to arrange (permute)  $n$  distinct objects is  $n!$ .

**Ex:** The letters A,B, and C can be arranged in

$$3! = 3 \cdot 2 \cdot 1 = 6 \text{ ways.}$$

### Permutation with Repeated Elements

Treat the elements as if they were distinct and find the number of permutations. Discount the permutation by dividing the number of ways that the identical elements can be arranged.

**Ex:** How many arrangements does the word BANANA have?

$$\frac{6!}{2! \cdot 3!} = \frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}{2 \cdot 3 \cdot 2 \cdot 1} = 6 \cdot 2 = 12$$

$6!$  is the number of ways to arrange 6 distinct objects

$2!$  is the number ways to arrange 2 N's

$3!$  is the number ways to arrange the 3 A's

$6!$  must be discounted by  $2!$  and  $3!$  due to overcounting for the repeated elements.

### Combinations

A combination is a set in which the order does not matter. The number of different combinations (groups) of size  $k$  can be

$$\text{formed from a total of } n \text{ objects in } \frac{n!}{k!(n-k)!}$$

$$\text{Notation: } {}^n C_k = \binom{n}{k} = \frac{n!}{k!(n-k)!}$$

**Read as:** "n choose k"

### Properties

$$\binom{n}{0} = 1 \quad \binom{n}{n} = 1 \quad \binom{n}{k} = \binom{n}{n-k}$$

**Ex:** From a group of 7 men and 5 women, how many different committees consisting of 4 men and 2 women can be formed?

There are  $\binom{7}{4} = \frac{7!}{4! \cdot 3!} = 35$  ways to choose the men, and

$$\binom{5}{2} = \frac{5!}{2! \cdot 3!} = 10 \text{ ways to choose the women. Combine the two by multiplying. Hence there are } 35 \cdot 10 = 350 \text{ ways to form the committee.}$$

## PROBABILITY

$P(E)$  reads the probability of event  $E$  or the probability of  $E$  happening.  $P(\bar{E})$  can be considered to be the probability function that maps an event to a number between 0 and 1.  $E$  can represent any type of event. Let  $\bar{E} = 1 - E$  is going to rain tomorrow.

$0 \leq P(E) \leq 1$  for any event  $E$ .

$$P(E) = \frac{\text{the number of outcomes in } E}{\text{total number of distinct outcomes}}$$

$P(A \text{ and } B) = P(A) \cdot P(B)$  if  $A$  and  $B$  are independent.

**Ex:** What is the probability of getting two heads in a row in two unbiased coin tosses?

Let  $H_1 =$  heads on the first toss,  $H_2 =$  heads on the second toss

$$P(H_1 \text{ and } H_2) = P(H_1) \cdot P(H_2) = \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4}$$

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

**Ex:** An unbiased coin is tossed twice. What is the probability of getting a heads on the first toss or on the second toss?

Using the same notation, we are looking for  $P(H_1 \text{ or } H_2)$ .

$$P(H_1 \text{ or } H_2) = P(H_1) + P(H_2) - P(H_1 \text{ and } H_2)$$

$$= P(H_1) + P(H_2) - P(H_1) \cdot P(H_2)$$

$$= \frac{1}{2} + \frac{1}{2} - \frac{1}{2} \cdot \frac{1}{2} = \frac{3}{4}$$

$P(\text{not } E)$  asks the probability that the outcome is not in  $E$ .

$$P(\text{not } E) = 1 - P(E)$$

$$P(\bar{E}) = 1 - P(E)$$

Use this set of rules when you encounter the words "and" or "or" in probability problems.

**Ex:** In a sequence of three unbiased coin flips, what is the probability of getting at least one heads?

Let  $\bar{E} =$  getting at least one heads. Then not getting at least one heads describes the same event as getting no heads which is equivalent to getting three tails. Therefore  $\text{not } E =$  getting 3 tails.

$$P(\bar{E}) = 1 - P(\text{not } E) = 1 - P(T_1 \text{ and } T_2 \text{ and } T_3)$$

$$= 1 - \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} = 1 - \frac{1}{8} = \frac{7}{8}$$

# Gre Math Guide

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## **Gre Math Guide:**

Bob Miller's Math for the GRE General Test Bob Miller, Robert Miller, 2008 Maximize Your Score on the GRE with Bob Miller Bob Miller has taught math to thousands of students at all educational levels for 30 years His proven teaching methods will help you master the math portion of the GRE and boost your score Written in a lively and unique format that students embrace Bob Miller's Math for the GRE prepares GRE General test takers with everything they need to know to solve the math problems that typify the GRE quantitative section Unlike some dull test preps that merely present the material Bob actually teaches and explains math concepts and ideas His no nonsense no stress style and decades of experience as a math teacher help students boost their GRE score Divided into 15 interactive chapters Bob breaks down math and puts it back together in an easy to follow step by step format Each chapter is devoted to a specific topic and is packed with examples and exercises that reinforce math skills Concepts covered include Decimals Fractions and Percentages Exponents Square Roots Algebraic Manipulations Quadratic Equations Points and Lines Circles and Triangles Quadrilaterals and more The book includes three full length practice tests with detailed explanations of answers plus a bonus chapter entitled How to Take the GRE that's filled with test taking tips and advice Remember if you're taking the GRE and need help with math Bob Miller's got your number

GRE Math Prep 2019 - 2020 Reza Nazari, Sam Mest, 2019-07-14 The only prep book you will ever need to succeed on the GRE Math Test GRE Math Prep 2019 2020 which reflects the 2019 2020 test guidelines provides students with the confidence and math skills they need to succeed on the GRE Math test It is designed to address the needs of GRE test takers who must have a working knowledge of basic Math The step by step guide and hundreds of examples in this book help you improve your math skills and raise your GRE Math scores Two full length GRE Math tests with detailed answers and explanations can help you discover your weak areas for concentrated study Here is a valuable learning tool for the GRE test takers who need to improve their knowledge of Mathematics and prepare for the GRE Math test After completing this workbook you will have solid foundation and adequate practice that is necessary to ace the GRE Math test GRE Math Prep 2019 2020 contains many exciting features to help you ace the GRE Math test including Content 100% aligned with the 2019 GRE test Prepared by GRE Math experts Complete coverage of all GRE Math topics which you will need to ace the test Step by step guide for all GRE Math topics Topics are grouped by category so you can easily focus on the topics you struggle on 2 complete GRE Math practice tests featuring new question types with detailed answers GRE Math Prep 2019 2020 is an incredibly useful tool for those GRE test takers who want to review core content areas brush up in math discover their strengths and weaknesses and achieve their best scores on the GRE test Published By Effortless Math Education [www.EffortlessMath.com](http://www.EffortlessMath.com)

**GRE Math for Beginners** reza Nazari, 2024-01-15 The Essential Guide to Mastering the 2024 GRE Quantitative Reasoning Section GRE Math for Beginners is a meticulously crafted guide that aligns seamlessly with the 2024 GRE test guidelines offering an unrivaled resource for those aiming to excel in the quantitative Reasoning section of the GRE

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*GRE Math Prep 2019* Reza Nazari, Ava Ross, 2018-12-12 The Only Book You ll Ever Need to ACE the GRE Quantitative Reasoning Test GRE Mathematics Prep 2019 provides students with the confidence and math skills they need to succeed on the GRE Math building a solid foundation of basic Math topics with abundant exercises for each topic It is designed to address the needs of GRE test takers who must have a working knowledge of basic Math This comprehensive book with over 2 500 sample questions and 2 complete GRE tests is all you need to fully prepare for the GRE Math It will help you learn everything you need to ace the math section of the GRE 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 book contains most common sample questions that are most likely to appear in the mathematics section of the GRE Inside the pages of this comprehensive GRE Math book 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 GRE Math Practice Tests that reflect the format and question types on GRE GRE Mathematics Prep 2019 is an incredibly useful tool for those who want to review all topics being covered on the GRE test It efficiently and effectively reinforces learning outcomes through engaging questions and repeated practice helping you to quickly master basic Math skills Get a copy today and see how fast you will prepare for the test with the GRE

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Meissner, Manhattan Review, 2012-12-18 *Word Problems*, 2011 *GRE Math Strategies* Manhattan Prep, 2018-09-04 Please note The content in the new Manhattan Prep GRE Math Strategies is an updated version of the math content in the Manhattan Prep GRE Set of 8 Strategy Guides Written and recently updated by our 99th percentile GRE instructors Manhattan Prep's GRE Math Strategies features in depth lessons covering strategies for every math question type on the GRE Designed with students in mind the guide provides a framework for understanding math for the purpose of the GRE and discusses time saving strategies specific to certain question formats including Quantitative Comparison and Data Interpretation questions Each chapter provides comprehensive subject matter coverage with numerous examples to help you build confidence and content mastery Mixed drill sets help you develop accuracy and speed All practice problems include detailed answer explanations written by top scorers **500 GRE Math Questions to Know by Test Day, Second Edition** Sandra Luna McCune, 2022-04-25 Get all the GRE math problem solving practice you need updated to match the latest exam and featuring a 20 question Diagnostic Quiz Achieve your highest score with 500 GRE Math Questions to Know by Test Day Second Edition This book is packed with the latest GRE style questions covering all the essential GRE math topics you'll see on the exam accompanied by answers and fully worked out step by step solutions to every problem It's the perfect way to sharpen your skills and build your confidence for test day Organized by subject for easy reference 500 GRE Math Questions to Know by Test Day provides excellent practice to help you make the most of your review time With small bits of information presented for quick and easy review this essential study guide is helpful for all types of students whether you're looking for a thorough refresh of topics or need extra help understanding specific question types Features 500 GRE test math questions and full explanations for each question in the answer key Bonus 20 question diagnostic quiz tests your knowledge upfront on different GRE math topics Introduction that explains the question types and formats for the Quantitative Reasoning section Updated summary of GRE Math Conventions at the beginning of each chapter Easy to use format parallels that of the latest GRE exam Ideal and effective practice to help you build the skills you need Includes strategies for answering all question types Small bits of practice make review simple allowing you to go at your own pace and track your progress accordingly **GRE Math Simplified With Video Solutions** Julia Andrews, 2013-03-29 Don't get shut out of graduate school because you struggle with math GRE Math Simplified with Video Solutions captures the lessons veteran GRE tutor Julia Andrews has taught her students of all levels including the math forgetful and the math phobic GRE Math Simplified focuses on explaining concepts rather than teaching gimmicks and addresses the ways in which a single concept can be tested in multiple ways It also addresses some of the most common pitfalls Each practice set is paired with a free online solutions video This way if you get stuck and the written explanation is not enough you can watch the corresponding video where the problems are worked out step by step to see where you went wrong The videos can be viewed for free at [gremathsimplified.com](http://gremathsimplified.com) **GRE Math Workbook** Kaplan Test Prep, 2015-12-01 Kaplan's GRE Math Workbook provides hundreds of realistic practice questions and

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New GRE Math Workbook Kaplan Staff,2011      **GRE Math Number Properties [2nd Edition]** Joern

Meissner,Manhattan Review,2012-12-18

**Bob Miller's Math for the New GRE** Bob Miller,Robert Miller,2011 Fully

updated for the new GRE general test

Official GRE Quantitative Reasoning Practice Questions, Second Edition, Volume 1

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**Barron's GRE Math Workbook** Blair Madore,David Freeling,2012-08-01 This comprehensive math

guide gives test takers the extra help that many need to score high on the exam The book s features include A description of the GRE s General Math Exam explaining structure question types and scoring Strategies for problem solving Hundreds of problems and solutions that focus on numbers and number theory algebra data analysis and geometry Two full length math sample sections structured to reflect the actual exam All questions come with answers and explanations      *Algebra* ,2010

**GRE Math Essentials** Jacob Kohannim,2025-10-27 GRE Math Essentials Targeted Practice and Review for GRE Math

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