

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 4:7:4. 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:

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

$$M - A = 2400$$

$$T = E + M + A$$

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

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

$$x = 800$$

$$T = E + M + A = 4x + 7x + 4x = 15x = 12,000$$

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 $x = 0$. Then column A and column B both equal to 0. Let $x = 2$. Column A equals 4; 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: 100,000 Column B: $125 \cdot 2^x$

$\frac{A}{B} = \frac{100,000}{125 \cdot 2^x} = \frac{800}{2^x} = \frac{2^3 \cdot 2^5}{2^x} = \frac{2^8}{2^x} = 2^{8-x}$

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) $25 + 1 + 1 + 4 + 81 = 112$

$$112 \div 5 = 22.4$$

(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 $3! = 3 \cdot 2 \cdot 1 = 6$ 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?

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

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

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

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

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

SQUARE APPROACH

When comparing radicals, square both column A and column B. Compare the squares.

Ex: Column A: $6\sqrt{3}$ Column B: $3\sqrt{7}$

$$A^2 = (6\sqrt{3})^2 = 36 \cdot 3 = 108$$

$$B^2 = (3\sqrt{7})^2 = 9 \cdot 7 = 63$$

Because $108 > 63$, then $A > B$. The answer is A.

When $x = 10$, then $2^x - 2^{x-1} = 2^x - 2^{x-1} = \frac{2^x}{2} - \frac{2^x}{2} = 1$. As x increases, $\frac{2^x}{2}$ decreases. Therefore $\frac{2^x}{2} < 1$ for all $x > 10$, and we conclude $A < B$. The answer is B. In general, apply this technique when exponents are involved. Make sure that $B > 0$ when you apply.

PROBABILITY

$P(E)$ reads the probability of event E or the probability of E happening. $P(E)$ 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 $E = 1$ 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 .

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

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

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 $E =$ 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.

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

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

Gre Math Guide

WJ Hussar



Gre Math Guide:

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

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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

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GRE Math for Beginners reza Nazari,2024-01-15 The Essential Guide to Mastering the 2024 GRE Quantitative Reasoning SectionGRE 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 This book stands out as a comprehensive tool not only due to its in depth coverage of topics but also because of its integration with an innovative online course enhancing the learning experience Innovative Learning Approach Integrated Online Course Each chapter of the book is complemented by a corresponding online course providing a cohesive learning experience QR Codes and Web Links Every topic discussed in the book features a QR code and a web link These lead to a dedicated webpage offering detailed lessons illustrative examples interactive exercises engaging video lessons and downloadable worksheets Comprehensive Answers and Explanations To reinforce learning the book provides detailed answers and explanations for all exercises and questions allowing learners to understand their mistakes and improve their problem solving strategies Book Highlights Fundamental Concepts A deep dive into the basic principles of GRE math ensuring a strong foundation Advanced Problem Solving Techniques Strategies and techniques to tackle complex questions with efficiency and accuracy Data Interpretation and Analysis Focused chapters on interpreting and analyzing data a crucial skill for the GRE Real World Applications Illustrating how GRE math concepts apply in real world scenarios enhancing understanding and retention Time Management Skills Tips and tricks to manage time effectively during the test Customizable Practice Tests Tailored practice tests that mimic the actual GRE helping learners to adapt to the exam format

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Manhattan Review GRE Math Essentials Guide [2nd Edition] Joern Meissner,Manhattan Review,2012-12-18

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GRE Math Number Properties [2nd Edition] Joern Meissner, Manhattan Review, 2012-12-18

Algebra, 2010 *Bob Miller's Math for the New GRE* Bob Miller, Robert Miller, 2011 Fully updated for the new GRE general test

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Table of Contents Gre Math Guide

1. Understanding the eBook Gre Math Guide
 - The Rise of Digital Reading Gre Math Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Gre Math Guide
 - 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 Gre Math Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gre Math Guide
 - Personalized Recommendations
 - Gre Math Guide User Reviews and Ratings
 - Gre Math Guide and Bestseller Lists
5. Accessing Gre Math Guide Free and Paid eBooks

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