WORD PROBLEMS (CONTINUED)

RATIO/PERCENTAGE PROBLEMS

Translation

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

Statement	Translated Statement
Q_1 is 20% of Q_2.	$Q_1 = 0.2Q_2$
Q_1 is 20% more than Q_2.	$Q_1 = (1+0.2)Q_2 = 1.2Q_2$
Q_1 is 20% less than Q_2.	$Q_1 = (1-0.2)Q_2 = 0.8Q_2$
The ratio of Q_1 and Q_2 is 3:4.	$\frac{Q_1}{Q_2} = \frac{3}{4}$ or $4Q_1 = 3Q_2$
Q_1 is decreased by 20%.	$Q_1(1-0.2) = 0.8Q_1$
Q_2 is increased by 20%.	$Q_2(1+0.2) = 1.2Q_2$
After adding 5 to Q_1 and subtracting 4 from Q_2, the ratio of the two new quantities is 6:7.	$\frac{Q_1+5}{Q_2-4} = \frac{6}{7}$

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:

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

$M - A = 2400$

$T = E + M + A$

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

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

$x = 800$

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

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	Column B
x^2	x^3

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	Column B
$a^2 + 1$	$2ay - y^2$

$A - B = a^2 + 1 - (2ay - y^2) = a^2 + 1 - 2ay + y^2$

$= (a^2 - 2ay + y^2) + 1 = (a-y)^2 + 1$

Because $(a-y)^2 \geq 0$, then $(a-y)^2 + 1 > 0$. 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 $B > 0$, 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	Column B
1000000	$125 \cdot 3^x$

$x > 10$

$$\frac{A}{B} = \frac{1000000}{125 \cdot 3^x} = \frac{10^6}{5^3 \cdot 3^x} = \frac{2^6 \cdot 5^6}{5^3 \cdot 3^x} = \frac{2^6 \cdot 5^3}{3^x} = 8 \cdot 25^3 \cdot \left(\frac{1}{3}\right)^x$$

When $x = 10$, then $8 \cdot 25^3 \cdot \left(\frac{1}{3}\right)^{10} = \frac{200}{3^7} = \frac{200}{2187} < 1$. As x increases, $\frac{A}{B}$ decreases. Therefore $\frac{A}{B} < 1$ 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.

SQUARE APPROACH

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

Ex:

Column A	Column B
$6\sqrt{5}$	$5\sqrt{7}$

$A^2 = (6\sqrt{5})^2 = 36 \cdot 5 = 180$

$B^2 = (5\sqrt{7})^2 = 25 \cdot 7 = 175$

Because $180 > 175$, then $A > B$. The answer is A.

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 $\frac{3+6+9+12+15}{5} = 9$ or $\frac{3+15}{2} = 9$.

Median

If n values are ordered from least to greatest, the median is defined 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, 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 10.

(1) The average is $\frac{2+6+8+9+10}{5} = 7$.

(2) and (3)	(4)
$2 - 7 = -5$	$(-5)^2 = 25$
$6 - 7 = -1$	$(-1)^2 = 1$
$8 - 7 = 1$	$1^2 = 1$
$9 - 7 = 2$	$2^2 = 4$
$10 - 7 = 3$	$3^2 = 9$

(4) $25 + 1 + 1 + 4 + 9 = 40$

(5) and (6) $\sqrt{\frac{40}{5}} = \sqrt{8} = 2\sqrt{2} \approx 2.8$

COUNTING

Permutation with Distinct Elements

The number of ways to arrange (permutate) 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?

$\frac{6!}{2! \cdot 3!} = \frac{6 \cdot 5 \cdot 4 \cdot 3!}{2! \cdot 3!} = 6 \cdot 5 \cdot 2 = 60$

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

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

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

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

Combination

A combination is a set in which the order does not matter. The number of different combinations (groups) of size k can be formed from a total of n objects is $\frac{n!}{k!(n-k)!}$.

Notation: $_nC_k = \binom{n}{k} = \frac{n!}{k!(n-k)!}$

Read as "n choose k".

Properties

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

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

PROBABILITY

$P(E)$ reads the probability of event E or the probability of E happening. $P(\ )$ can be considered to be the probability functions that maps an event to a number between 0 and 1. E can represent any type of event, i.e. E = it is going to rain tomorrow.

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

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

$P(A \text{ and } B) = P(A) \cdot P(B)$ 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 "not" or "at least" 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 $P(\text{not } E)$ = getting 3 tails.

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

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

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