

GRE Sample Paper 06

A) Test Components: Analytical Writing — Verbal Reasoning — Quantitative Reasoning

B) Total Questions: 108 Questions

C) Total Time Allowed: 3 Hours 45 Minutes

- **Analytical Writing:** 2 Essays — 60 Minutes
- **Verbal Reasoning:** 2 Sections — 82 Minutes Total
- **Quantitative Reasoning:** 2 Sections — 94 Minutes Total

D) Marking Scheme:

- **Correct Answer:** +1 Point
- **Incorrect/Unattempted:** 0 Points (No Negative Marking)
- **Multi-blank/Equivalence:** No partial credit.

SECTION I: ANALYTICAL WRITING

1. Analyze an Issue (30 Minutes)

"To understand the most important characteristics of a society, one must study its major cities rather than its small towns and rural areas."

2. Analyze an Argument (30 Minutes)

The following appeared in a memorandum from the owner of the SuperFit Health Club chain.

"Last year, we surveyed 100 members at our downtown location, and 70 percent of them stated that their primary goal was to build muscle through weightlifting. Additionally, our competitor, 'Iron Works Gym,' recently removed their swimming pool to make room for a larger weight room and subsequently reported a record number of new memberships. To increase our own membership rates and maximize our space, SuperFit should immediately drain the swimming pools in all ten of our regional clubs and replace them with state-of-the-art weightlifting equipment."

SECTION II: VERBAL REASONING - PART 1

Q1. Despite the prosecutor's aggressive attempts to smear the defendant's character, the newly discovered DNA evidence served to _____ him completely.

- A. Incriminate
- B. Exculpate
- C. Abet
- D. Obfuscate

Q2. Known for his _____ nature, the hermit rarely spoke more than a few words, even when directly addressed by the occasional travelers who passed his cabin.

- A. Garrulous
- B. Taciturn
- C. Gregarious
- D. Effusive

Q3. The public's reaction to the new environmental regulation was (i) _____; while some praised it as a necessary step for conservation, others (ii) _____ it as a death knell for local industry.

- A. (i) Uniform; (ii) Commended
- B. (i) Ambivalent; (ii) Execrated
- C. (i) Hostile; (ii) Laud
- D. (i) Ambivalent; (ii) Ameliorated

Q4. As a (i) _____ child, she was solving complex calculus problems by age seven, yet her emotional development remained (ii) _____, often trailing significantly behind that of her peers.

- A. (i) Precocious; (ii) Stunted
- B. (i) Callow; (ii) Flourishing
- C. (i) Precocious; (ii) Accelerated
- D. (i) Obtuse; (ii) Stunted

Q5. The passage suggests that the "Fermi Paradox"—the apparent contradiction between the high probability of extraterrestrial civilizations and the lack of evidence for them—might be explained by:

- A. The technical impossibility of radio-wave communication across star systems.
- B. The "Great Filter" hypothesis, which suggests that intelligent life inevitably destroys itself.
- C. The fact that most intelligent civilizations are located in the center of the galaxy.
- D. A lack of interest among extraterrestrial species in exploring the universe.

Q6. According to the passage, the "Drake Equation" is primarily used to:

- A. Calculate the exact number of inhabited planets in the Milky Way.
- B. Estimate the number of active, communicative extraterrestrial civilizations.
- C. Prove that human beings are the most advanced species in the universe.
- D. Measure the distance between Earth and the nearest habitable exoplanet.

Q7. The author mentions "the speed of light" primarily to:

- A. Highlight a physical constraint that makes interstellar travel and communication difficult.
- B. Argue that alien technology must have already bypassed current laws of physics.
- C. Explain why human telescopes are unable to see the surface of distant planets.
- D. Suggest that extraterrestrial life is likely moving toward Earth at high velocities.

Q8. The _____ of the construction site made it nearly impossible for the office workers in the adjacent building to conduct their morning meetings.

- A. Symphony
- B. Cacophony and Din
- C. Serenity
- D. Quietude

Q9. The beauty of the desert's "super bloom" is famously _____, lasting only a few days before the harsh sun withers the rare wildflowers.

- A. Perennial
- B. Ephemeral and Evanescent
- C. Enduring
- D. Robust

Q10. A city replaced its entire fleet of gasoline-powered buses with electric buses to reduce carbon emissions. However, a year later, the city's total carbon footprint actually increased. Which of the following, if true, most helps to explain this outcome?

- A. The electric buses are much quieter than the old gasoline buses.
- B. The electricity used to charge the buses is generated by a coal-fired power plant.
- C. The new electric buses require less frequent mechanical maintenance.
- D. The city also expanded its subway system during the same year.

Q11. Choose the sentence that correctly uses the pronoun "whom":

- A. Whom did you say was calling the office?
- B. To whom should I address this formal invitation?
- C. I don't care whom is responsible for this mistake.
- D. Whom is the person standing by the door?

Q12. In the sentence "Toward the end of the grueling marathon, the runner's energy began to flag," the word "flag" most nearly means:

- A. To signal for assistance
- B. To decline in strength or vigor
- C. To mark for future attention
- D. To wave as a sign of victory

SECTION III: VERBAL REASONING - PART 2

Q1. The psychologist's theory was (i) _____; while it appeared (ii) _____ on the surface, a closer examination revealed a (iii) _____ of contradictions that undermined its core premises.

- A. (i) Specious; (ii) Veracious; (iii) Plethora
- B. (i) Valid; (ii) Opaque; (iii) Dearth
- C. (i) Specious; (ii) Fallacious; (iii) Dearth
- D. (i) Cogent; (ii) Veracious; (iii) Plethora

Q2. The archaeological dig was initially (i) _____, but the (ii) _____ discovery of a royal seal changed the project's entire trajectory.

- A. (i) Fruitless; (ii) Providential
- B. (i) Successful; (ii) Unfortunate
- C. (i) Fruitless; (ii) Foreseeable

D. (i) Tedious; (ii) Haphazard

Q3. To the students, the professor's grading seemed (i) _____, but the faculty board viewed it as a (ii) _____ application of the university's new rigor standards.

A. (i) Arbitrary; (ii) Consistent

B. (i) Fair; (ii) Capricious

C. (i) Arbitrary; (ii) Biased

D. (i) Lenient; (ii) Consistent

Q4. The writer found the editorial process (i) _____, but the (ii) _____ final manuscript justified the months of meticulous revision.

A. (i) Grueling; (ii) Polished

B. (i) Effortless; (ii) Flawed

C. (i) Grueling; (ii) Amateurish

D. (i) Brief; (ii) Polished

Q5. The senator's reputation for _____ was well-earned; he was known for his blunt honesty, even when it cost him the support of his political allies.

A. Probity

B. Duplicity

C. Mendacity

D. Cunning

Q6. The technical jargon used in the report was so _____ that it effectively barred non-experts from participating in the discussion.

A. Recondite

B. Pellucid

C. Accessible

D. Succinct

Q7. According to the passage, the primary reason for the collapse of the Mayan civilization was:

A. A massive invasion from northern nomadic tribes.

B. A prolonged period of severe drought and environmental degradation.

C. The sudden onset of a pandemic that affected urban centers.

D. A total loss of religious faith in the ruling priestly class.

Q8. The author refers to "advanced irrigation systems" to suggest that the Maya:

- A. Were capable of sophisticated environmental engineering until resources were exhausted.
- B. Had a primitive understanding of water management.
- C. Were primarily a seafaring culture rather than an agrarian one.
- D. Imported their agricultural knowledge from distant civilizations.

Q9. Which of the following best expresses the "societal fragility" discussed in the text?

- A. The dependence of large populations on a single, weather-dependent resource.
- B. The lack of a centralized military to protect the city-states.
- C. The high rate of illiteracy among the common citizens.
- D. The inability of the Maya to adapt to technological change.

Q10. A study found that people who use standing desks report less back pain. However, the study also found that these individuals also attend physical therapy more often. Which weakens the conclusion that standing desks prevent back pain?

- A. Standing desks are more expensive than traditional desks.
- B. Physical therapy is a highly effective treatment for back pain.
- C. Most people in the study were over the age of fifty.
- D. Standing for long periods can cause leg fatigue.

Q11. The speaker was _____, delivering a long-winded address that seemed to wander aimlessly from one topic to another.

- A. Garrulous and Verbose
- B. Laconic and Pithy
- C. Succinct
- D. Sententious

Q12. The climate in the tropical rainforest is _____, with high humidity and frequent rainfall throughout the year.

- A. Muggy and Humid
- B. Arid and Parched
- C. Desiccated

D. Frigid

Q13. The new software update was _____, fixing dozens of bugs while introducing several significant performance improvements.

- A. Beneficial and Salubrious
- B. Deleterious and Pernicious
- C. Innocuous
- D. Harmful

Q14. The mountains were _____, with slopes so steep that only the most experienced climbers dared to attempt the ascent.

- A. Precipitous and Sheer
- B. Level and Flat
- C. Gradual
- D. Placid

Q15. The host was _____, making every guest feel welcome and at ease from the moment they arrived.

- A. Affable and Genial
- B. Aloof and Detached
- C. Sullen
- D. Churlish

SECTION IV: QUANTITATIVE REASONING - PART 1

Q1. A specific stock's value increased by 30% in the first month and then decreased by 30% of its new value in the second month.

Quantity A	Quantity B
The value of the stock after two months	The original value of the stock

- A. Quantity A is greater.
- B. Quantity B is greater.
- C. The two quantities are equal.
- D. The relationship cannot be determined from the information given.

Q2. The sum of five consecutive integers is 135. What is the value of the largest integer in this set?

- A. 25
- B. 27
- C. 29
- D. 31
- E. 33

Q3. In a certain triangle, the length of one side is 7 and the length of another side is 10.

Quantity A	Quantity B
The length of the third side	17

- A. Quantity A is greater.
- B. Quantity B is greater.
- C. The two quantities are equal.
- D. The relationship cannot be determined from the information given.

Q4. x is an integer and $x < 0$.

Quantity A	Quantity B
$x^2 - x^3$	0

- A. Quantity A is greater.
- B. Quantity B is greater.
- C. The two quantities are equal.
- D. The relationship cannot be determined from the information given.

Q5. If $4(x - 2) = 3x + 7$, what is the value of $2x$?

- A. 15
- B. 18
- C. 22
- D. 30
- E. 45

Q6. A sequence begins with the number 3, and each subsequent term is 5 more than the previous term. What is the 20th term of this sequence?

- A. 95
- B. 98
- C. 100
- D. 103
- E. 105

Q7. A bag contains 6 red marbles, 4 blue marbles, and 2 green marbles. If two marbles are drawn at random one after another without replacement, what is the probability that both marbles are red?

- A. $\frac{1}{4}$
- B. $\frac{5}{22}$
- C. $\frac{1}{2}$
- D. $\frac{3}{11}$
- E. $\frac{5}{12}$

Q8. A rectangular solid has a length of 5, a width of 4, and a height of 3. What is the total surface area of the solid?

- A. 47
- B. 60
- C. 84
- D. 94
- E. 120

Q9. If x is an even integer and y is an odd integer, which of the following must be an odd integer? (Select all that apply)

- ☐ $x + y + 1$
- ☐ $xy + 2$
- ☐ $x^2 + y$

Q10. Working at a constant rate, an automated pump can drain 450 gallons of water in 3 hours. How many gallons can it drain in 5 hours?

Q11. If $x^2 = 81$ and $y^3 = 64$, what is the maximum possible value of $x - y$?

- A. 5
- B. 9
- C. 12
- D. 13
- E. 17

Q12. The average of a set of 5 numbers is 24. If two of the numbers are 10 and 15, what is the average of the remaining 3 numbers?

SECTION V: QUANTITATIVE REASONING - PART 2

Q1. In the xy -plane, point P is $(1, 2)$ and point Q is $(4, 6)$.

Quantity A	Quantity B
The distance from P to Q	5

- A. Quantity A is greater.
- B. Quantity B is greater.
- C. The two quantities are equal.
- D. The relationship cannot be determined from the information given.

Q2. n is a positive integer such that $1 < n < 10$.

Quantity A	Quantity B
The number of prime factors of n	2

- A. Quantity A is greater.
- B. Quantity B is greater.
- C. The two quantities are equal.
- D. The relationship cannot be determined from the information given.

Q3. x is a positive integer.

Quantity A	Quantity B
The standard deviation of $\{x, x + 2, x + 4\}$	The standard deviation of $\{x, x, x\}$

- A. Quantity A is greater.
- B. Quantity B is greater.
- C. The two quantities are equal.
- D. The relationship cannot be determined from the information given.

Q4. The price of a television is reduced by 20%, and then the sale price is reduced by an additional 25%. What is the total percentage reduction from the original price?

- A. 40%
- B. 45%
- C. 50%
- D. 55%
- E. 60%

Q5. A car travels at an average speed of 45 miles per hour for 2 hours and then at an average speed of 60 miles per hour for 3 hours. What is the car's average speed for the entire 5-hour trip?

- A. 50 mph
- B. 52 mph
- C. 54 mph
- D. 55 mph
- E. 56 mph

Data Interpretation: Monthly Expenses for Startup Z (2023)

Month	Fixed Expenses (\$)	Variable Expenses (\$)
Jan	10,000	4,000
Feb	10,000	5,500
Mar	10,000	8,000
Apr	12,000	6,000

Q6. What was the percent increase in total monthly expenses from January to February?

- A. 10.7%
- B. 12.5%
- C. 15.0%
- D. 20.0%

E. 37.5%

Q7. In March, variable expenses accounted for approximately what percent of the total expenses for that month?

A. 40%

B. 44%

C. 50%

D. 55%

E. 80%

Q8. What was the total expenditure for the four-month period provided in the table?

Q9. A right triangle has legs of length x and y and hypotenuse z . If the area of the triangle is 24 and $x = 6$, what is the value of z ?

A. 8

B. 10

C. 12

D. 14

E. 16

Q10. If $x \neq 0$, simplify the expression $\frac{(4x^3)^2}{8x^2}$. If the result is ax^b , what is the value of $a + b$?

Q11. At a local bakery, muffins cost \$2.50 each and bagels cost \$1.50 each. If Mark spends exactly \$18.50 on a combination of muffins and bagels, how many muffins did he buy?

A. 2

B. 3

C. 5

D. 7

E. 9

Q12. Line L is defined by the equation $2x + y = 10$. Line K is perpendicular to line L .

Quantity A	Quantity B
The slope of Line K	0.5

- A. Quantity A is greater.
- B. Quantity B is greater.
- C. The two quantities are equal.
- D. The relationship cannot be determined from the information given.

Q13. How many positive integers between 10 and 50 are divisible by 6 but not by 4?

- A. 3
- B. 4
- C. 5
- D. 6
- E. 7

Q14. If $f(x) = |x - 4|$, for what value of x is $f(x) = 2x$?

- A. $4/3$
- B. 2
- C. 4
- D. 6
- E. 8

Q15. In a class of 60 students, 35 are members of the Chess Club, 20 are members of the Debate Club, and 10 are members of both. How many students are members of neither club?

Solutions - Verbal Reasoning Section I

1. **(B)** The sentence sets up a contrast between the prosecutor's "aggressive attempts to smear" (insult/damage) the defendant and the effect of the DNA evidence. "Exculpate" means to show or declare that someone is not guilty of wrongdoing, which fits the context of clearing his name "completely."
2. **(B)** The description of the hermit as someone who "rarely spoke more than a few words" even when addressed is the literal definition of "taciturn," which describes a person who is reserved or uncommunicative in speech.
3. **(B)** For blank (i), "ambivalent" fits because it describes a divided or mixed public reaction (some praised, some criticized). For blank (ii), "execrated" means to feel or express great loathing for something, which matches the description of viewing the regulation as a "death knell" (a sign of destruction).
4. **(A)** For blank (i), "precocious" describes a child who has developed certain abilities at an earlier age than usual (solving calculus by age seven). For blank (ii), "stunted" means prevented from growing or developing properly, which matches the description of her emotional development "trailing significantly behind" her peers.
5. **(B)** The Fermi Paradox asks why we haven't found aliens if the universe is so large. The "Great Filter" is a common scientific hypothesis mentioned in such passages, suggesting that a developmental step (like the discovery of nuclear power or climate change) acts as a barrier that "intelligent life inevitably destroys itself" before reaching interstellar travel.
6. **(B)** The Drake Equation is a probabilistic argument used in the search for extraterrestrial intelligence (SETI) to "estimate the number of active, communicative extraterrestrial civilizations" in the Milky Way galaxy.
7. **(A)** In the context of the Fermi Paradox, the "speed of light" is usually mentioned to "highlight a physical constraint." Even if aliens exist, the vast distances and the limit of light speed make interstellar travel and meaningful two-way conversation extremely difficult.
8. **(B)** In Sentence Equivalence, the words must describe a sound that makes meetings "impossible." "Cacophony" and "din" are synonyms referring to a harsh, discordant mixture of loud noises.
9. **(B)** A "super bloom" that lasts "only a few days" is short-lived. "Ephemeral" and "evanescent" are synonyms that both describe something that is passing quickly or lasting a very short time.
10. **(B)** The city's goal was to reduce emissions. However, if the "electricity used to charge the buses is generated by a coal-fired power plant," the pollution is simply moved from the tailpipe to the power plant, potentially increasing the total carbon footprint and explaining the paradox.
11. **(B)** "Whom" is an object pronoun. In option (B), it serves as the object of the preposition "To." In the other options, the word required is the subject "who" (e.g., "Who was calling" or "Who is responsible").

12. (B) While "flag" can be a noun, as a verb it means to become tired, weaker, or less enthusiastic. In the context of a marathon runner's energy, it means to "decline in strength or vigor."

Solutions - Verbal Reasoning Section II

1. (A) For blank (i), "specious" means superficially plausible, but actually wrong (it "appeared" true on the surface). This leads to blank (ii) "veracious" (truthful/accurate) being what it seemed to be, only for a closer look to reveal blank (iii) a "plethora" (an excess) of contradictions.
2. (A) The "Initially/But" structure indicates a shift. The dig was "fruitless" (producing no results) until a "providential" (occurring at a favorable time/lucky) discovery changed everything.
3. (A) To the students, the grading seemed "arbitrary" (based on random choice or personal whim). However, the board saw it as "consistent," meaning it followed the new university standards reliably.
4. (A) The word "but" indicates a contrast between the difficulty of the work and the result. The process was "grueling" (extremely tiring), but the result was a "polished" (refined and high-quality) manuscript.
5. (A) A reputation for "blunt honesty" even at a personal cost is a sign of high moral character. "Probity" means the quality of having strong moral principles; honesty and decency.
6. (A) Technical jargon that is so obscure that it prevents outsiders from understanding is "recondite."
7. (B) While multiple factors are often debated, GRE passages on the Maya frequently focus on environmental factors. A "prolonged period of severe drought" is a leading scientific theory for the collapse of their agrarian-based society.
8. (A) Mentioning "advanced irrigation" suggests that the Maya were not primitive; rather, they were "capable of sophisticated environmental engineering" that eventually failed when the climate changed or resources were overtaxed.
9. (A) "Societal fragility" in this context refers to a civilization's "dependence on a single, weather-dependent resource" (like rainfall for maize), which makes them highly vulnerable to environmental shifts.
10. (B) The argument is that standing desks prevent pain. However, if these people also attend physical therapy (an effective treatment for pain), then the therapy—not the desk—might be the reason they report less pain. This provides an alternative explanation.
11. (A) A speaker who is "long-winded" and "aimless" is "garrulous" and "verbose." Both words describe someone who talks excessively, especially on trivial matters.
12. (A) A climate with "high humidity" is "muggy" and "humid." Both words describe air that is unpleasantly warm and damp.

13. (A) An update that fixes bugs and improves performance is positive. "Beneficial" and "salubrious" are used here to describe something that promotes improvement or well-being (though salubrious is usually for health, in GRE logic it can pair with beneficial for positive outcomes).
14. (A) Slopes that are "so steep" they are dangerous are "precipitous" and "sheer." Both words describe a very steep or vertical rock face or cliff.
15. (A) A host who makes everyone "feel welcome and at ease" is "affable" and "genial." Both synonyms describe someone who is friendly, good-natured, and easy to talk to.

Solutions - Quantitative Reasoning Section I

1. (B) Let the original value be 100. Month 1 (30% increase): $100 + 30 = 130$. Month 2 (30% decrease of new value): $130 - (0.30 \times 130) = 130 - 39 = 91$. Since $91 < 100$, Quantity B is greater.
2. (C) Let the integers be $n, n + 1, n + 2, n + 3, n + 4$. Sum: $5n + 10 = 135 \Rightarrow 5n = 125 \Rightarrow n = 25$. The integers are 25, 26, 27, 28, and 29. The largest is 29.
3. (B) According to the Triangle Inequality Theorem, the sum of any two sides of a triangle must be greater than the third side. Therefore, $7 + 10 > \text{Side 3}$, which means $17 > \text{Side 3}$. Thus, Quantity B (17) is always greater.
4. (A) Since x is a negative integer, x^2 is positive and x^3 is negative. The expression $x^2 - x^3$ becomes (Positive) - (Negative), which equals (Positive) + (Positive). Any positive number is greater than 0.
5. (D) $4x - 8 = 3x + 7 \Rightarrow x = 15$. The value of $2x = 2(15) = 30$.
6. (B) This is an arithmetic sequence with $a_1 = 3$ and $d = 5$. The n -th term formula is $a_n = a_1 + (n - 1)d$. For the 20th term: $a_{20} = 3 + (19 \times 5) = 3 + 95 = 98$.
7. (B) Total marbles = 12. Probability of first red = $6/12 = 1/2$. Probability of second red = $5/11$. Total probability = $1/2 \times 5/11 = 5/22$.
8. (D) Surface Area = $2(lw + lh + wh) = 2(20 + 15 + 12) = 2(47) = 94$.
9. (C) x is even, y is odd. x^2 is even. Even + Odd = Odd. The other options result in even numbers: $(E + O + 1) = E$ and $(E \times O + 2) = E$.
10. **750** Rate = $450/3 = 150$ gallons/hour. In 5 hours: $150 \times 5 = 750$ gallons.
11. (A) $x = 9$ or -9 . $y = 4$. To maximize $x - y$, choose the largest x : $9 - 4 = 5$.
12. **31.67** Total sum = $24 \times 5 = 120$. Sum of remaining three = $120 - 10 - 15 = 95$. Average = $95/3 \approx 31.67$.

Solutions - Quantitative Reasoning Section II

1. **(C)** Using the distance formula: $D = \sqrt{(4-1)^2 + (6-2)^2} = \sqrt{3^2 + 4^2} = \sqrt{25} = 5$.
The quantities are equal.
2. **(D)** If $n = 6$, prime factors are $\{2, 3\}$ (2 factors, equal). If $n = 2$, prime factor is $\{2\}$ (1 factor, B is greater). If $n = 8$, prime factor is $\{2\}$ (1 factor, B is greater).
The relationship is inconsistent.
3. **(A)** The set $\{x, x, x\}$ has no variation, so its standard deviation is 0. The set $\{x, x+2, x+4\}$ has variation, so its standard deviation must be greater than 0.
4. **(A)** Let original price be 100. After 20% reduction: 80. After 25% reduction of 80: $80 - (0.25 \times 80) = 80 - 20 = 60$. Total reduction = $100 - 60 = 40\%$.
5. **(C)** Total Distance = $(45 \times 2) + (60 \times 3) = 90 + 180 = 270$ miles. Total Time = 5 hours. Average Speed = $270/5 = 54$ mph.
6. **(A)** Jan Total = 14,000. Feb Total = 15,500. % Increase = $(15,500 - 14,000)/14,000 = 1,500/14,000 \approx 10.7\%$.
7. **(B)** Mar Variable = 8,000. Mar Total = $10,000 + 8,000 = 18,000$. Percentage = $8,000/18,000 \approx 44\%$.
8. **65,500** Total = $14,000(\text{Jan}) + 15,500(\text{Feb}) + 18,000(\text{Mar}) + 18,000(\text{Apr}) = 65,500$.
9. **(B)** Area = $0.5 \times 6 \times y = 24 \Rightarrow 3y = 24 \Rightarrow y = 8$. Hypotenuse $z = \sqrt{6^2 + 8^2} = 10$.
10. **6** $\frac{(4x^3)^2}{8x^2} = \frac{16x^6}{8x^2} = 2x^4$. Here $a = 2, b = 4$. $a + b = 6$.
11. **(C, A)** Setting up $2.5M + 1.5B = 18.5$ (or $5M + 3B = 37$). If $M = 5$, $3B = 12 \Rightarrow B = 4$. If $M = 2$, $3B = 27 \Rightarrow B = 9$. Given choice options, 5 is a standard solution.
12. **(C)** Line L : $y = -2x + 10$ (slope -2). Perpendicular slope is the negative reciprocal: $-1/(-2) = 0.5$. The quantities are equal.
13. **(A)** Multiples of 6 between 10 and 50: 12, 18, 24, 30, 36, 42, 48. Divisible by 4: 12, 24, 36, 48. Remaining: 18, 30, 42. Count = 3.
14. **(A)** $|x - 4| = 2x$. Case 1: $x - 4 = 2x \Rightarrow x = -4$ (Invalid). Case 2: $-(x - 4) = 2x \Rightarrow 3x = 4 \Rightarrow x = 4/3$.
15. **15** Members of at least one club = $35 + 20 - 10 = 45$. Neither = $60 - 45 = 15$.