

MiM-Essay

GRE Quantitative Reasoning Sample Paper 2026

A free practice set for students searching for GRE Quant question papers: 27 original questions with answers across Quantitative Comparison, Problem Solving, Numeric Entry, and Data Analysis.

7 Quantitative Comparison

12 Problem Solving

4 Numeric Entry

4 Data Analysis

Answer Key Included

Important: This is an unofficial practice resource created by MiM-Essay. It is not an ETS publication and does not reproduce copyrighted GRE questions. The questions are original and are designed only to resemble the reasoning skills and broad question formats tested on the current GRE General Test.

Updated: August 2026

How to Use This Practice PDF

The current GRE General Test has two scored Quantitative Reasoning sections. Each section is 21 minutes long and contains 12 questions, for 27 Quant questions in total across the test including the unscored variation in section length.

Question type	Current GRE Quant format	This PDF
Quantitative Comparison	Compare two quantities and choose one of four fixed options	7 original questions
Problem Solving	Multiple choice with five answer options	12 original questions
Numeric Entry	Type the answer; no options are given	4 original questions
Data Analysis	Questions built on a shared table, chart, or data set	4 original questions

Suggested timing: Give yourself 12 minutes for Section 1, 20 minutes for Section 2, 7 minutes for Section 3, and 8 minutes for Section 4. This is a mini practice set, not a full-length adaptive mock exam.

Before You Start

- An on-screen calculator is available on the real GRE Quant section; use one only where the arithmetic genuinely requires it.
- For Quantitative Comparison, always test more than one case before choosing "cannot be determined".
- Numeric Entry answers are typed, so there is nothing to eliminate — check the units the question asks for.
- Track errors by type: concept gap, reasoning error, careless error, or timing issue.

Current exam structure verified against ets.org (GRE General Test), August 2026.

Section 1: Quantitative Comparison

Questions 1–7. For each question, compare Quantity A and Quantity B, then choose the best answer.

For Q1–Q7, use these answer choices:

- 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.

Q1. If x is a positive integer and $x < 5$:

Quantity A

$$x^2 + x$$

Quantity B

$$3x$$

A B C D

Q2. A rectangle has length l and width w . The perimeter of the rectangle is 30.

Quantity A

The area of the rectangle when $l = 10$

Quantity B

50

A B C D

Q3. If $a^2 = b^2$, where a and b are nonzero numbers:

Quantity A

a

Quantity B

b

A B C D

Q4. A circle has radius r .

Quantity A

The area of the circle

Quantity B

The circumference of the circle

A B C D

Q5. The average of three numbers is 24. Two of the numbers are 18 and 30.

Quantity A

The third number

Quantity B

24

A B C D

Q6. If $0 < x < 1$:

Quantity A

x

Quantity B

x^2

A B C D

Q7. A box contains red and blue balls only. The ratio of red balls to blue balls is 2:3, and the total number of balls is 50.

Quantity A

The number of red balls

Quantity B

The number of blue balls minus 10

A B C D

Section 2: Quantitative Problem Solving

Questions 8–19. Choose the best answer. These questions focus on arithmetic, algebra, ratios, percentages, averages, probability, and geometry.

Q8. A jacket originally costs ₹4,800. During a sale, the price is reduced by 35%. What is the sale price of the jacket?

- A. ₹2,880
- B. ₹3,120
- C. ₹3,200
- D. ₹3,360
- E. ₹3,680

Q9. If $4x - 7 = 2x + 9$, what is the value of $x + 3$?

- A. 9
- B. 10
- C. 11
- D. 12
- E. 13

Q10. The sum of five consecutive integers is 135. What is the largest integer?

- A. 25
- B. 26
- C. 27
- D. 28
- E. 29

Q11. A store increases the price of a product by 20% and later decreases the new price by 20%. If the original price was ₹5,000, what is the final price?

- A. ₹4,000
- B. ₹4,800
- C. ₹5,000
- D. ₹5,200
- E. ₹6,000

Q12. If $x^2 - 7x + 12 = 0$, what are the possible values of x ?

- A. 2 and 6
- B. 3 and 4
- C. 1 and 12
- D. 4 and 5
- E. 6 and 7

Q13. A student scored 82, 91, and 87 on three tests. What score must the student earn on the fourth test to have an average score of 88?

- A. 90
- B. 91
- C. 92
- D. 93
- E. 94

Q14. A triangle has a base of 12 cm and a height of 9 cm. What is its area?

- A. 36 cm²
- B. 48 cm²
- C. 54 cm²
- D. 72 cm²
- E. 108 cm²

Q15. A company has 240 employees. If 45% of employees work in the marketing department, how many employees work outside marketing?

- A. 108
- B. 120
- C. 132
- D. 138
- E. 150

Q16. A number is increased by 40% and the result is 84. What was the original number?

- A. 50
- B. 55
- C. 60
- D. 65
- E. 70

Q17. A bag contains 5 green, 7 yellow, and 8 black balls. If one ball is selected randomly, what is the probability that it is yellow?

- A. $\frac{1}{4}$
- B. $\frac{7}{20}$
- C. $\frac{1}{3}$
- D. $\frac{7}{15}$
- E. $\frac{3}{5}$

Q18. The equation $3x + 2y = 24$ has positive integer solutions. Which of the following could be a value of x ?

- A. 1
- B. 4
- C. 5
- D. 8
- E. 10

Q19. A rectangular garden has an area of 96 square meters. If its length is 12 meters, what is its perimeter?

- A. 24 m
- B. 32 m
- C. 40 m
- D. 44 m
- E. 48 m

Section 3: Numeric Entry

Questions 20–23. Enter your answer as a number. There are no answer choices for these questions.

Q20. A positive integer n leaves a remainder of 3 when divided by 7. What is the smallest possible value of n ?

Answer: _____

Q21. A circle has an area of 49π . What is the radius of the circle?

Answer: _____

Q22. A car travels 240 miles using 8 gallons of fuel. At the same rate, how many miles can the car travel using 15 gallons of fuel?

Answer: _____

Q23. If $(2/5)x = 18$, what is the value of x ?

Answer: _____

Section 4: Data Analysis

Questions 24–27. The table below shows the number of applicants to four graduate programs at a university.

Program	Applicants	Accepted students
MBA	800	160
MiM	600	150
MS Finance	500	125
MS Analytics	400	120

Q24. What was the acceptance rate for the MBA program?

- A. 10%
- B. 15%
- C. 20%
- D. 25%
- E. 30%

Q25. Which program had the highest acceptance rate?

- A. MBA
- B. MiM
- C. MS Finance
- D. MS Analytics
- E. All were equal

Q26. If the number of MiM applicants increased by 25%, how many applicants would there be?

- A. 650
- B. 700
- C. 725
- D. 750
- E. 800

Q27. The university wants to increase the total number of accepted students by 20% while keeping the acceptance rates unchanged. What would be the new total number of accepted students?

- A. 546
- B. 600
- C. 666
- D. 720
- E. 800

Answer Key – Quantitative Comparison

Q1: D. Test cases. At $x = 1$, $A = 2$ and $B = 3$; at $x = 2$, both equal 6; at $x = 3$, $A = 12$ and $B = 9$. The relationship changes, so it cannot be determined.

Q2: C. Perimeter 30 gives $l + w = 15$. With $l = 10$, $w = 5$, so the area is 50 — equal to Quantity B.

Q3: D. $a^2 = b^2$ allows $a = b$ or $a = -b$, so either quantity can be greater.

Q4: D. Area πr^2 exceeds circumference $2\pi r$ only when $r > 2$; they are equal at $r = 2$ and reversed below it.

Q5: C. The three numbers total 72. Subtracting 18 and 30 leaves 24, equal to Quantity B.

Q6: A. Squaring a number between 0 and 1 makes it smaller, so $x > x^2$ throughout the range.

Q7: C. The 2:3 ratio over 50 balls gives 20 red and 30 blue. Quantity B is $30 - 10 = 20$, equal to Quantity A.

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Answer Key – Problem Solving

Q8: B – ₹3,120. A 35% reduction leaves 65% of the price: $4,800 \times 0.65 = 3,120$.

Q9: C – 11. $4x - 7 = 2x + 9$ gives $2x = 16$, so $x = 8$ and $x + 3 = 11$.

Q10: E – 29. Five consecutive integers averaging $135 \div 5 = 27$ are 25, 26, 27, 28, 29. The largest is 29.

Q11: B – ₹4,800. $5,000 \times 1.20 = 6,000$, then $6,000 \times 0.80 = 4,800$. Successive equal percentage changes never cancel out.

Q12: B – 3 and 4. Factor: $(x - 3)(x - 4) = 0$.

Q13: C – 92. Four tests averaging 88 need a total of 352. The first three total 260, so the fourth must be 92.

Q14: C – 54 cm². Area = $\frac{1}{2} \times 12 \times 9 = 54$.

Q15: C – 132. 55% of employees are outside marketing: $240 \times 0.55 = 132$.

Q16: C – 60. The original number is $84 \div 1.40 = 60$.

Q17: B – 7/20. There are 20 balls in total and 7 are yellow.

Q18: B – 4. Substituting $x = 4$ gives $2y = 12$, so $y = 6$. The other options leave y negative, zero, or non-integer.

Q19: C – 40 m. Width = $96 \div 12 = 8$ m, so perimeter = $2(12 + 8) = 40$ m.

Answer Key – Numeric Entry and Data Analysis

Q20: 3. The smallest positive integer leaving remainder 3 on division by 7 is 3 itself ($7 \times 0 + 3$).

Q21: 7. $\pi r^2 = 49\pi$ gives $r^2 = 49$, so $r = 7$.

Q22: 450. The rate is $240 \div 8 = 30$ miles per gallon, so $30 \times 15 = 450$ miles.

Q23: 45. $(2/5)x = 18$ gives $x = 18 \times 5 \div 2 = 45$.

Q24: C – 20%. $160 \div 800 = 0.20$.

Q25: D – MS Analytics. Acceptance rates are MBA 20%, MiM 25%, MS Finance 25%, MS Analytics 30%.

Q26: D – 750. $600 \times 1.25 = 750$.

Q27: C – 666. Current accepted students total $160 + 150 + 125 + 120 = 555$. A 20% increase gives $555 \times 1.20 = 666$.

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How to Review Your Score

Quant Comparison

___/7

Problem Solving

___/12

Entry + Data

___/8

This mini set is not designed to predict an official GRE score. Instead, use it to identify where your reasoning breaks down.

If you missed...	What to review next
Quantitative Comparison	Case testing, the four fixed answer choices, and when a relationship genuinely cannot be determined
Percentage and ratio questions	Percent change, successive percentages, part-to-whole translation
Algebra questions	Linear equations, factoring quadratics, solving for an expression rather than a variable
Averages and probability	Sum-from-average setup, simple counting, single-event probability
Data Analysis	Reading only the relevant column, computing rates, comparing percentage changes

Best next step: After using this PDF, practice with the official POWERPREP tools on ets.org. ETS provides free practice tests and a set of real GRE practice questions.

Source and Accuracy Note

Exam structure and question-type descriptions were checked against official GRE information on ets.org in August 2026. This MiM-Essay PDF contains original practice questions only. GRE is a registered trademark of Educational Testing Service (ETS), which does not sponsor or endorse this resource.

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