GRE 2024 Quant Practice Test 9

Time Allowed :	Maximum Score :	Sections :
About 3 hrs 45 mins	340 (Verbal+Quant) + 6 (AWA)	3 Main + 1 Unscored

General Instructions

Read the following instructions very carefully and strictly follow them:

1. The GRE General Test has a duration of about 3 hours 45 minutes, divided into six sections (including one unscored/experimental section).
2. The test consists of the following sections:
   - **Analytical Writing Assessment (AWA)** – 2 tasks, 30 minutes each.
   - **Verbal Reasoning** – 2 sections, 20 questions each, 30 minutes per section.
   - **Quantitative Reasoning** – 2 sections, 20 questions each, 35 minutes per section.
   - **Unscored/Research Section** – May appear anytime (not counted in score).
3. Scoring Pattern:
   - Verbal Reasoning: 130–170 (in 1-point increments).
   - Quantitative Reasoning: 130–170 (in 1-point increments).
   - Analytical Writing: 0–6 (in half-point increments).
4. No negative marking is applied in the GRE. Test-takers are advised to attempt all questions.
5. Only an on-screen calculator is allowed for Quantitative Reasoning. No physical calculators, mobile devices, or electronic gadgets are permitted.
6. Breaks: A 10-minute break is provided after the third section; one-minute breaks between other sections.

QUANT PRACTICE PAPER

1. Simplify: $x2y - 5x2y2x2y$

(A) $1 - 5x$
(B) None of the other answers
(C) $y - 5y$
(D) $5 + x2y2$

(E) $1 - 5y$

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2. A function $f(x) = -1$ for all values of x. Another function $g(x) = 3x$ for all values of x. What is $g(f(x))$ when $x = 4$?

(A) -3
(B) 3
(C) 12
(D) -12
(E) -1

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3. Factorize: $25x^2 - 36y^2$

(A) Cannot be factored
(B) $(5x + 6y)(5x + 6y)$
(C) $(5x - 6y)(5x - 6y)$
(D) $(5x - 6y)(5x + 6y)$
(E) $5 \times 6 \times (x^2 - y^2)$

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4. If $-1 < w < 1$, all of the following must also be greater than -1 and less than 1 EXCEPT for which choice?

(A) w^2
(B) $\frac{3w}{2}$
(C) $|w|$
(D) $\frac{w}{2}$
(E) $|w|^{0.5}$

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5. In the equation below, m, p, k are non-zero numbers. What is the value of m in terms of p and k?
$1m3 - 1k2 = 1p$

(A) $m = (pk2p + k2)_{13}$
(B) $m = (p + k2)_3$
(C) $m = p2k3p + k2$
(D) $m = p_{12} - k_{13}$

(E) $m = (p + k2pk2)_{13}$

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6. For the quantities below, $x < y$ and x and y are both integers.
Quantity A: x^5y^3
Quantity B: x^4y^4

(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 provided.

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7. Solve the inequality:

$$6(x - 1) < 7(3 - x)$$

(A) $x < 127$
(B) $x > 1327$
(C) $x > -1117$
(D) $x < 2713$
(E) $x > -1327$

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8. $h(x) = \frac{28x+4}{x-4}$. For which of the following values of x is the function undefined?

(A) 4
(B) 28
(C) -4
(D) 0
(E) None of the other answers

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9. If $4xs = v$, $v = ks$, and $sv \neq 0$, which of the following is equal to k?

(A) $4xv$
(B) x
(C) $4x$
(D) $2xv$
(E) xv

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10. Solve the quadratic equation:

$$3x^2 - 11x = -10$$

(A) -2
(B) $\frac{5}{3}$
(C) 3
(D) $-\frac{5}{3}$
(E) None of the other answers

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11. Evaluate:

$$y = 3^{13} - 9^5(127)^{-3}$$

(A) 24
(B) 30
(C) 27
(D) 81
(E) 73

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12. Solve for x:

$$2^{x+1} = 128$$

(A) 6
(B) 8
(C) 7
(D) 5
(E) 9

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13. Evaluate:

$$0.0075 \div 0.0126$$

(A) 0.000945
(B) 9.45×10^{-5}
(C) 9.45×10^{-6}
(D) 0.945

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14. A five-year bond is opened with \$5000 at an interest rate of 2.5%, compounded annually. Find the approximate total after 5 years.

(A) $5518
(B) $5657
(C) $5811
(D) $5625
(E) $6143

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15. In a four-digit positive integer y, the thousand's digit is three times the unit's digit. Compare the unit's digit of y (Quantity A) with 4 (Quantity B).

Quantitiy A	Quantitiy B
Unit's digit of y	4

(A) Quantity B is greater.
(B) The relationship cannot be determined.
(C) The two quantities are equal.
(D) Quantity A is greater.
