GRE 2024 Quant Practice Test 12

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

16. A bakery stocks 3 cookies for every 2 cupcakes and 6 pastries for every 5 cookies. What is the ratio of cupcakes to pastries?

(A) 5:9
(B) 2:5
(C) 1:3
(D) 4:5

(E) 4:9

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17. Jessica bought a few pairs of socks for \$50. If there had been a 20% discount, she could have bought 5 more pairs of socks for the same total price. How many pairs of socks did she buy?

(A) 5
(B) 2
(C) 10
(D) 15
(E) 20

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18. If $|x - 3| = 3$, compare the two quantities:
Quantity A: x
Quantity B: 2

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

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19. If operation $x \boxtimes y = 4x - y^2$, and x, y are positive integers, which of the following cannot produce an odd value?

(A) $x \boxtimes y^2$
(B) $x \boxtimes 2y$
(C) $y \boxtimes x$
(D) $x \boxtimes y$
(E) $x \boxtimes (y + 1)$

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20. Let $p = 4 \times 6 \times 11 \times n$, where n is a positive integer. Compare the following:
Quantity A: Remainder when p is divided by 5
Quantity B: Remainder when p is divided by 33

(A) Quantity A is greater.
(B) Quantity B is greater.

(C) The two quantities are equal.
(D) The relationship cannot be determined.

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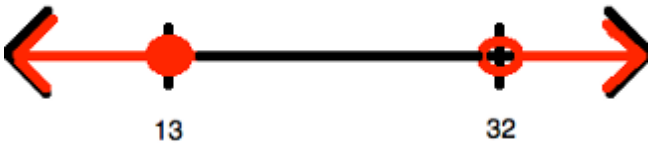
21. Which of the following is a graph for the values of x defined by the inequality $26 \leq 2x < 64$?

(A)



(B)

(C)

(D)

(E)

22. Sam is a caterer who needs to bake 300 pies. Each pie requires 4 apples. Apples are sold in bushels, with 126 apples in each bushel. How many bushels must Sam order to ensure he has enough apples?

(A) 11
(B) 9
(C) 9.5
(D) 10
(E) 12

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23. What is the sum of all of the four-digit integers that can be created with the digits 1, 2, 3, and 4?

(A) 5994
(B) 37,891
(C) 711,040
(D) 482,912
(E) 48,758

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24. Which of the following defines any term in a linear sequence having 30 for its first term and 126 for its ninth term?

(A) $s_n = s_{n-1} + \frac{16}{3}$
(B) $s_n = s_{n-1} + 8$
(C) $s_n = s_{n-1} + 12$
(D) $s_n = 2s_{n-1} + 4$
(E) $s_n = s_{n-1} + \frac{32}{3}$

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25. Robert has 22.8% of his cereal left. Choose the decimal that best represents how much of his cereal he has eaten.

(A) 0.325
(B) 0.228
(C) 0.22
(D) 0.77
(E) 0.772

26. A group of five students averaged 85 points on an exam taken out of 100 total points. If the addition of two additional students raises the group average to 88 points, what is the minimum score that one of those two students can receive? Assume that 100 is the highest score for the exam.

(A) 93
(B) 100
(C) None of the other answers
(D) 95.5
(E) 91

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27. In a bag, there are 10 red, 15 green, and 12 blue marbles. If you draw two marbles (without replacing), what is the approximate probability of drawing two different colors?

(A) 33.33%
(B) 0.06%
(C) None of the other answers
(D) 67.57%
(E) 25%

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28. How many different license passwords can one make if said password must contain exactly 6 characters, two of which are distinct numbers, another of which must be an uppercase letter, and the remaining 3 can be any digit or letter (upper- or lower-case) such that there are no repetitions of any characters in the password?

(A) 231
(B) 456426360
(C) 219
(D) 619652800
(E) 365580800

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29. Sample Set A has 25 data points with an arithmetic mean of 50. Sample Set B has 75 data points with an arithmetic mean of 100. Quantity A: The arithmetic mean of the 100 data points encompassing A and B. Quantity B: 80

(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.

30. Which statement is correct assuming that a represents the range, b represents the mean, c represents the median, and d represents the mode for the number set: 8, 3, 11, 12, 3, 4, 6, 15, 1 ?

(A) $a < c < d < b$
(B) $d < c < b < a$
(C) $b = c < a < d$
(D) $c < b < a < d$
(E) $b < c < a = d$