

GRE 2024 Quant Practice Test 15

Q1. Simplify:

$$\sqrt{343x^5} - \sqrt{49x^3}$$

- (1) $7x - \sqrt{}$
- (2) $x^7 - \sqrt{}$
- (3) x^7
- (4) $7x$
- (5) $7x$

Q2. Which is greater, when $-1 < x < 0$?

Quantity A: $|x|$

Quantity B: x^2

- (1) The two quantities are equal
- (2) Quantity B is greater
- (3) Quantity A is greater
- (4) The relationship cannot be determined from the information given

Q3. Solve: $231 \div 3 + 93 \div 3$

- (1) 282
- (2) 14
- (3) 263
- (4) 283
- (5) 263

Q4. Quantity A: 49012

Quantity B: 4056

- (1) The two quantities are equal
- (2) Quantity B is larger
- (3) Quantity A is larger
- (4) The relationship cannot be determined based on the information provided

Q5. Flour, eggs, sugar, and chocolate chips are mixed by weight in the ratio of 12 : 5 : 3 : 5. How many pounds of chocolate chips are there in 75 pounds of the mixture?

- (1) 15
- (2) 25
- (3) 18
- (4) 5

6. Quantity A: $|10| - |16|$
Quantity B: $|1 - 5| - |3 - 6|$

- (1) Quantity B is greater.
- (2) The two quantities are equal.
- (3) Quantity A is greater.
- (4) The relationship cannot be determined from the information given.

7. Given $0 < x < y < z < 10$, **where** x, y, z **are integers:**

Quantity A: -7

Quantity B: $x + y - z$

- (1) Quantity B is greater.
- (2) The two quantities are equal.
- (3) Quantity A is greater.
- (4) The relationship cannot be determined from the information given.

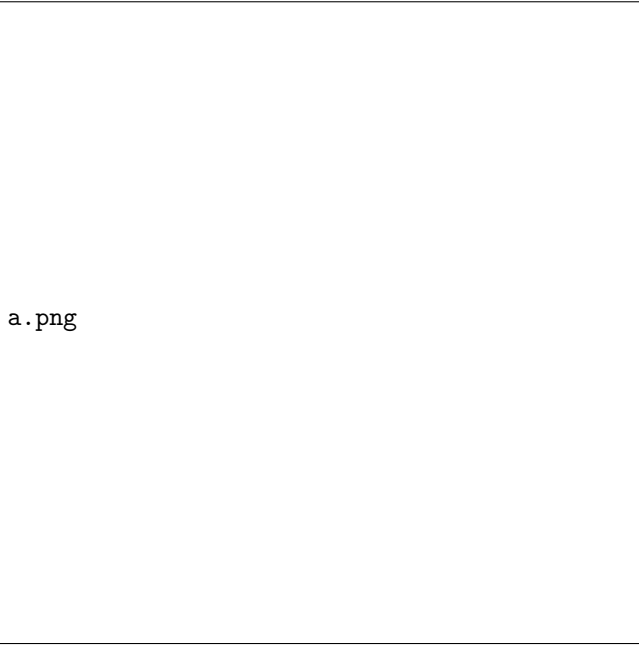
8. Which of the following is true?

Given inequality: $2x + 6 > 16$

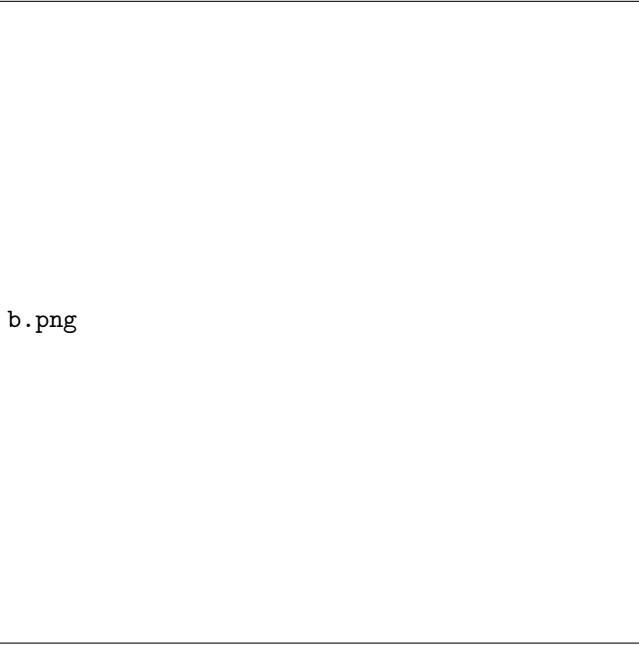
- (1) The relationship between the quantities cannot be determined.
- (2) Quantity B is larger.
- (3) Quantity A is larger.
- (4) The two quantities are equal in size.

9. Which of the following is a graph for the values of x defined by the inequality $2x + 6 > 16$?

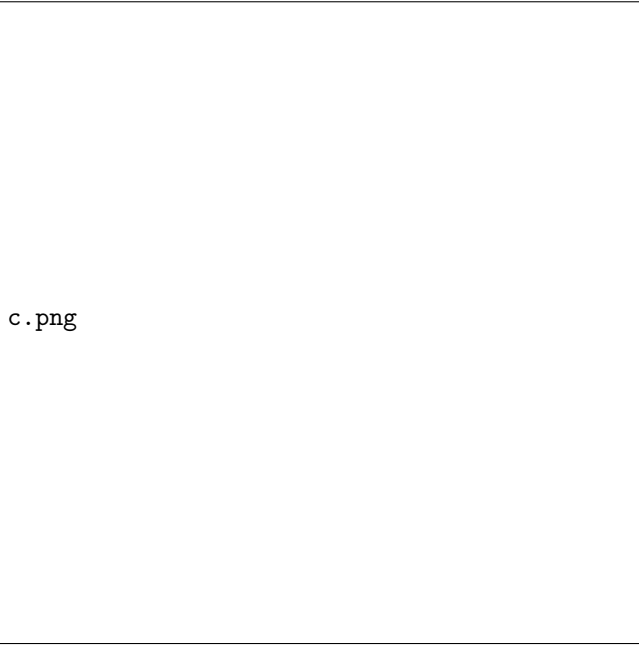
- (1)



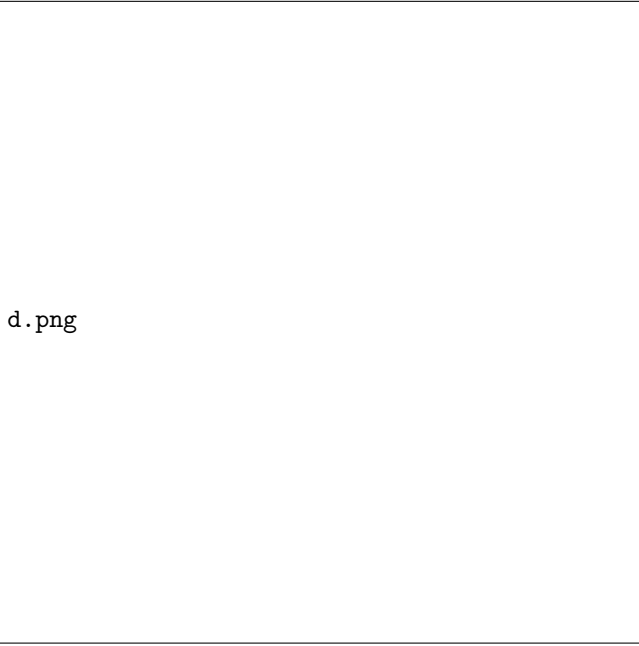
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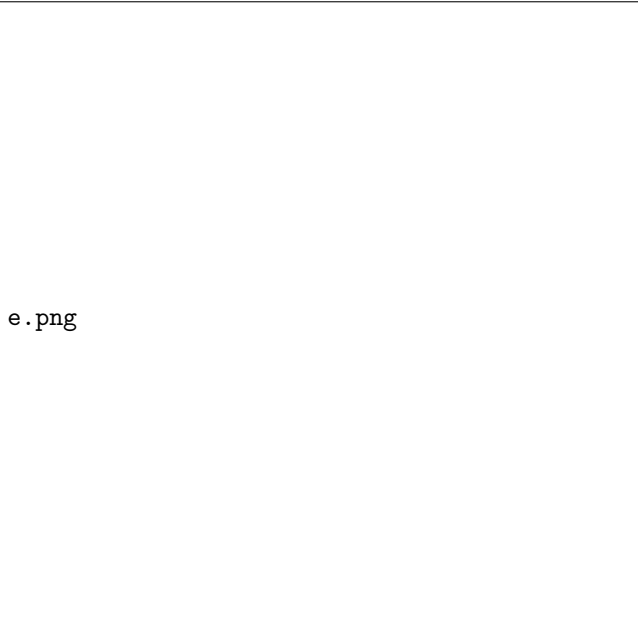
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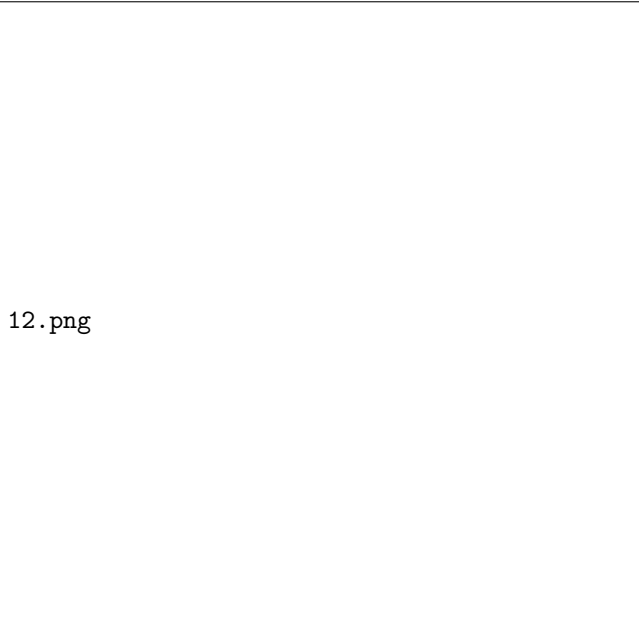
10. The product of two consecutive positive integers is 272. What is the larger of the two integers?

- (1) 17
- (2) 16
- (3) 18
- (4) 19
- (5) 15

11. What is the sum of the 40th and the 70th elements of the series defined as: $s_n = s_{n-1} - 5$, $s_1 = 281$?

- (1) 55
- (2) 17
- (3) 22
- (4) 100
- (5) 45

12. By what percentage did the total book sales of the three stores increase from 2005 to 2010?



- (1) 12%
- (2) 20%
- (3) 33.3%
- (4) 15%
- (5) 25%

13. Quantity A: x , where x is 65% of 408.
Quantity B: y , where y is 40% of 663.

- (1) The two quantities are equal.
- (2) Quantity A is greater.
- (3) Quantity B is greater.
- (4) The relationship cannot be determined from the given information.

14. A chamber of commerce board has seven total members, drawn from a pool of twenty candidates. First, a president, secretary, and treasurer are chosen. After that, four members are chosen “at large.” How many possible boards could be chosen?

- (1) 10,465,200
- (2) 390,700,800
- (3) 2,713,200
- (4) 16,279,200
- (5) 5,426,400

15. Box A has 10 green balls and 8 black balls. Box B has 9 green balls and 5 black balls. What is the probability that one ball drawn from each box is green?

- (1) $\frac{5}{14}$
 - (2) $\frac{16}{49}$
 - (3) $\frac{9}{9}$
 - (4) $\frac{14}{19}$
 - (5) $\frac{19}{252}$
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