

算术 (上) -课后练习册



5. If the sum of 11 consecutive integers is 22, then what's the least of the list of numbers?
A6
B5
C3
D2
E1
6. The sum of n consecutive integers is 30
Quantity A: n
Quantity B: 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 given.
7. The average of n consecutive integers is 0
Quantity A: The sum of the greatest and least value of the n consecutive integers
Quantity B: The sum of all the n consecutive integers
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.
8. For positive integers X and Y, whose product is 24, which of following statements <u>MUST</u> be true?
Indicate <u>all</u> such statements.
A. x+y<24
B. If one is odd, the other one must be even
C. (12/y) is an integer
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9. $y=4x^2+5x+7$ where y is an odd, which of the following is true about x?

A. x is odd
B. x is even
C. x is positive odd
D. x is positive even
E. Cannot be determined
10. Which of the following CANNOT be the value of k+k² where k is a positive integer?
A. A multiple of 10
B. A multiple of 12
C. A number with the units digit as 5
D. A number such that the sum of units digit and tens digit is 9
E. A number with tens digit as 4
11. m is a positive integer and 5m+9 is divisible by 4, which of the following must be an odd?
Indicate <u>all</u> such items.
A. (m+2) (m+4)
B. 3-m
C. 3+m
D. m ³ +9
12. X and y are both integers from 1 to 10, inclusive, and Set S consists of all the possible products of $x*y$.
Quantity A: The number of odd integers in Set S
Quantity B: The number of even integers in Set S
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.



13. Quantity A: Among all the consecutive integers from 1 to 50, the difference between the sum of all even numbers and the sum of all odd numbers

numbers and the sum of all odd numbers
Quantity B: 25
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.
14. Which of the following CANNOT be the sum of six consecutive odd integers?
A24
B. 42
C. 36
D. 96
E. 120
15. a and b are positive integers and ab=24
Quantity A: a ² b
Quantity B: 192
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.
16. n, s and t are all positive integers
If n is a multiple of 7 and $n=s^2t$, which of the following must be a multiple of 49?
A. s
B. t
C. st ²
D s2t

E. s^2t^2