

# Quiz 1

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## Part 1 of 1 / 8.0 Points

Question 1 of 8

1.0 Points

Which one of the following is not a factor of 24?

- ☐ A. 2
- ☐ B. 3
- ☐ C. 4
- ☒ D. 5

Answer Key: D

Question 2 of 8

1.0 Points

What is  $\gcd(56, 60)$ ?

- ☐ A. 8
- ☒ B. 6
- ☐ C. 4
- ☐ D. 2

Answer Key: C

Question 3 of 8

1.0 Points

Subset Sum Problem belongs to class P


-  ☐ True  
☐ False

Answer Key: False

Question 4 of 8

1.0 Points

Every problem in the class NP can be verified in polynomial time.

-  ☐ True  
☐ False

Answer Key: True

Question 5 of 8

1.0 Points

The  $n \times n$  Chess Problem belongs to class NP.

-  ☐ True  
☐ False

Answer Key: False

Question 6 of 8

1.0 Points

Every P problem is also an NP Problem

-  ☒ True  
☐ False

Answer Key: True

Question 7 of 8

1.0 Points

Every definable problem has an algorithm to solve it


-  ☐ True  
☒ False

Answer Key: False

Question 8 of 8

1.0 Points

The time complexity of binary search is  $O(\log n)$

-  ☐ True  
☒ False



Answer Key: True