

General Questions

1. One Terabyte (1 TB) is equal to
 - a. 1004 GB
 - b. 1014GB
 - c. 1024 GB
 - d. 1034 GB
2. What kind of file is .gif
 - a. Image file
 - b. Video file
 - c. Audio file
 - d. Word file
3. Which of the following is not a database management software
 - a. MySQL
 - b. Oracle
 - c. Microsoft Access
 - d. COBOL
4. Which of the following is not an operating system
 - a. DOS
 - b. Mac
 - c. C
 - d. Linux
5. Firewall is used for
 - a. Security
 - b. Data Transmission
 - c. Authentication
 - d. Monitoring
6. What is the extension type of the excel 2013 files
 - a. .xls
 - b. .xlsx
 - c. .xsl
 - d. None of the above
7. Which type of number system is used to calculate and to store data in computer
 - a. Decimal
 - b. Octal

- c. Binary
 - d. hexadecimal
8. A folder in windows computer can't be made with the name
- a. Can
 - b. Con
 - c. Mak
 - d. make
9. Which one of the followings is a markup language
- a. HTTP
 - b. HTML
 - c. HPML
 - d. FTP
10. Latest release of Windows Operating System is
- a. Windows XP
 - b. Windows 10
 - c. Windows 7
 - d. Windows 8
11. Total number of function keys in a computer keyboard is
- a. 10
 - b. 12
 - c. 14
 - d. 8
12. The basic units of a excel spreadsheet where we enter data is called
- a. Tab
 - b. Box
 - c. Cell
 - d. None of the above
13. Which application is used for making presentation file
- a. MS Outlook
 - b. MS Excel
 - c. MS Word
 - d. MS Powerpoint
14. Which one of the following is not a programming language
- a. BASIC

- b. HTML
 - c. C++
 - d. JAVA
15. Which is an Input device
- a. Monitor
 - b. Printer
 - c. Mouse
 - d. None of the above
16. Which key combination is used to permanently delete a file or folder
- a. Shift+delete
 - b. Alt+delete
 - c. CTRL+delete
 - d. Delete
17. 'Linux' is an
- a. Software
 - b. Application
 - c. Operating System
 - d. Browser
18. Which of the following is not a search engine
- a. Google
 - b. Yahoo
 - c. Netscape
 - d. Bing
19. Which one is not a part of a computer device or system
- a. Mother Board
 - b. CPU
 - c. Keyboard
 - d. Scanner
20. Which one is the default extension of 2013 office word document
- a. .doc
 - b. .docx
 - c. .xls
 - d. .pdf

21. What does the letter "S" stand for in the Web terminology "HTTPS"
- a. Safe
 - b. Secure
 - c. Short
 - d. Shorter
22. Which one of the following represents the binary equivalent of the decimal number 43
- a. 101111
 - b. 101011
 - c. 110011
 - d. 101010
23. Generally, which language is used to construct World Wide Web pages ???
- a. URL
 - b. IRC
 - c. NIH
 - d. HTML
24. Errors in computer programmes are called
- a. Follies
 - b. Mistake
 - c. Bugs
 - d. Spam
25. Which of the following is used to store large amount of data
- a. Primary memory
 - b. Auxiliary storage
 - c. Cache memory
 - d. Random access memory
26. Virus is a computer
- a. File
 - b. Database
 - c. Network
 - d. Program
27. The place where accessories are connected in computer is
- a. Port
 - b. Ring
 - c. Bus

d. Zip

28. DNS stands for

- a. Domain Name System
- b. Dynamic Name System
- c. Distributed Name System
- d. Data Name System

29. A computer on Internet is uniquely identified by

- a. Memory address
- b. E-mail address
- c. IP address
- d. Virtual address

30. A compiler is

- a. A combination of computer hardware
- b. A software utility that translates a program written in machine language into high level language
- c. A software utility that translates a program written in high language into machine level language
- d. A combination of computer hardware and software

31. Internet is

- a. Local Area Network
- b. Metropolitan Area Network
- c. Wide Area Network
- d. Storage Network

32. A record album is

- a. Analog
- b. Digital

33. How many bits make up one letter in binary code?

- a. 4
- b. 8
- c. 6
- d. 10

34. What is BIOS short for?

- a. Basic Input/Output System
- b. Big Input/Output System

- c. Binary Input/Output System
 - d. Banned Input/Output System
35. The field that covers a variety of computer networks, both public and private, that are used in everyday jobs.
- (a) Artificial Intelligence
 - (b) ML
 - (c) Network Security
 - (d) IT
36. Network Security provides authentication and access control for resources.
- (a) True
 - (b) False
37. Binary code comprises of digits from 0 to 9.
- (a) True
 - (b) False
38. Any electronic holding place where data can be stored and retrieved later whenever required is
- (a) memory
 - (b) drive
 - (c) disk
 - (d) circuit
39. The physical devices of a computer :
- (a) Software
 - (b) Package
 - (c) Hardware
 - (d) System Software
40. Software Package is a group of programs that solve multiple problems.
- (a) True
 - (b) False
41. _____ refer to renewing or changing components like increasing the main memory, or hard disk capacities, or adding speakers, or modems, etc.
- (a) Grades
 - (b) Prosody
 - (c) Synthesis
 - (d) Upgrades

42. Which of the following is designed to control the operations of a computer?
- (a) Application Software
 - (b) System Software
 - (c) Utility Software
 - (d) User
43. Each personal computer has a _____ that manages the computer's arithmetical, logical and control activities.
- (a) Microprocessor
 - (b) Assembler
 - (c) Microcontroller
 - (d) Interpreter
44. What is responsible for creating a process from a program?
- (a) OS
 - (b) Web
 - (c) Internet
 - (d) Firewall
45. Which of the following isn't a part of the file directory?
- (a) Attributes
 - (b) Protocol
 - (c) Location
 - (d) Ownership
46. A task carried out by the OS and hardware to accommodate multiple processes in main memory.
- (a) Memory control
 - (b) Memory management
 - (c) Memory sharing
 - (d) Memory usage
47. FTP stands for?
- (a) File Text Protocol
 - (b) File Transfer Protocol
 - (c) Firm Transfer Protocol
 - (d) File Transplant Protocol
48. _____ is a paradigm of distributed computing to provide the customers on-demand, utility based computing service.
- (a) Remote Sensing

- (b) Remote Invocation
- (c) Cloud Computing
- (d) Private Computing

49. A network of physical objects or things embedded with electronics or softwares.

- (a) Artificial Intelligence (AI)
- (b) Machine Learning (ML)
- (c) Internet of Things (IOT)
- (d) Internet

50. Wi-Fi stands for?

- (a) Wireless fidelity
- (b) Wireless Flexibility
- (c) Wide Fidelity
- (d) WAN Flexibility

51. The technology that has the ability to interact with the world.

- (a) Artificial Intelligence (AI)
- (b) Machine Learning (ML)
- (c) Internet of Things (IOT)
- (d) IT

52. Which of the following is not a type of computer on the basis of operation?

- (a) Remote
- (b) Hybrid
- (c) Analog
- (d) Digital

53. A computer that operates on digital data.

- (a) remote
- (b) hybrid
- (c) analog
- (d) digital

54. _____ are used for solving complex application such as Global Weather Forecasting.

- (a) Super Computers
- (b) Public computers
- (c) Mobile computers
- (d) Hybrid computers

55. A model that is the demo implementation of the system.

- (a) waterfall
- (b) prototype
- (c) incremental
- (d) agile

Questions from Programming

1. What is a sequence of instructions which enables a computer to perform a desired task?
 - a. Program
 - b. Compiler
 - c. Assembly
 - d. Algorithm
2. Human communicates with computer using _____ language.
 - a. Sign
 - b. English
 - c. Machine
 - d. Programming
3. Computers are involved in every aspect of our lives.
 - a. True
 - b. False
4. What is a list of steps that you can follow to finish a task?
 - a. Commands
 - b. Wires
 - c. Algorithm
 - d. Program
5. Which of the following would be a conditional operation?
 - a. Wet hair
 - b. Turn left
 - c. Rinse
 - d. Add soap until suds appear
6. Code that will repeat itself for each item in a defined list.
 - a. Mutator
 - b. Global Variable
 - c. Iteration
 - d. Component
7. What does interactive mean?

- a. When you use your computer
 - b. You can watch a program
 - c. Something moves in the program
 - d. An event happens when the user does something
8. When your program changes behavior on a question answered (like yes or no), it is making a _____.
- a. Variable
 - b. Selection
 - c. Sequential decision
 - d. Script
9. The process of identifying problems and opportunities and then resolving them.
- a. Teamwork
 - b. Communication
 - c. problem-solving
 - d. leadership
10. How does learning visual programming teach you to solve problems?
- a. It is very hard
 - b. It is easy
 - c. It makes you figure out what to do
 - d. It doesn't help you solve problems
11. What is it called when you test your program and try to find any problems that need to be fixed?
- a. Bugging
 - b. Debugging
 - c. Incrementalism
 - d. Remix
12. A command in code that changes depending on what is going on in the program is called a
- a. Emulator
 - b. Sequence
 - c. Iteration
 - d. Variable
13. When you use an IF statement in programming you are creating _____ code.

- a. Sequential
 - b. Conditional
 - c. Simultaneous
 - d. Variable
14. What is the program that allows you to try out your apps on a simulated cell phone?
- a. Connector
 - b. App Build
 - c. Emulator
 - d. Phone Simulator
15. A type of value that represents text.
- a. Method
 - b. String
 - c. Array
 - d. Function
16. A group or collection of objects with common properties.
- a. Class
 - b. Method
 - c. Loop
 - d. Inheritance
17. the process whereby the system converts the image frames into a seamless animation
- a. virtual world
 - b. rendering
 - c. debugging
 - d. animation
18. Contains 3D objects and simulates a real or imaginary physical environment
- a. Animation
 - b. Virtual world
 - c. Rendering
 - d. Procedure
19. A series of independent images that when viewed rapidly, one-after-another, creates the illusion of movement.
- a. Animation

- b. Rendering
 - c. Procedure
 - d. Method
20. Which of these expressions is NOT a valid way to add 1 to a variable?
- a. `x++`
 - b. `x += 1`
 - c. `x = x + 1`
 - d. `x+`
21. What is the only language that a computer can understand?
- a. High-level
 - b. Application
 - c. Machine
 - d. Assembly
22. Which type of error occurs when a programmer misspells a word or instruction?
- a. Runtime
 - b. Syntax
 - c. Logic
 - d. System
23. Consider the loop control structure in programming. Which term describes a loop that continues repeating without a terminating (ending) condition?
- a. Conditional loop
 - b. Unlimited loop
 - c. Sequence loop
 - d. Infinite loop
24. Which term is used to describe expressions that result in the value of either true or false?
- a. Selection
 - b. Boolean
 - c. Conditional
 - d. Concatenation
25. When two parties exchange information so that they trust that each other is who they say they are....

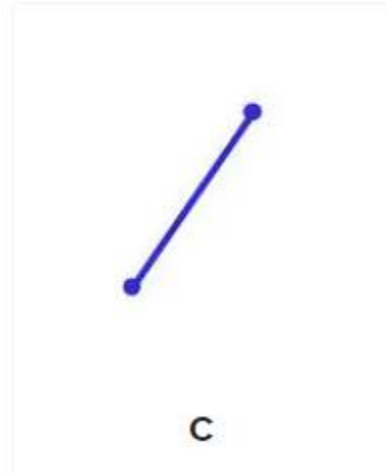
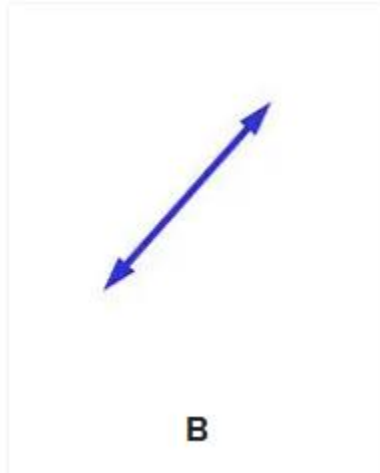
- a. Assigning
 - b. Authentication
 - c. Decomposition
 - d. Evaluate
26. Finding and fixing problems in your algorithm or program
- a. Insect spray
 - b. Looping
 - c. Debugging
 - d. Digit
27. Variable names must begin with a lowercase letter and cannot have any spaces.
- a. True
 - b. False
28. The language made up of binary coded instructions.
- a. Machine
 - b. C
 - c. BASIC
 - d. High level
29. Computer has a built-in system clock that emits millions of regularly spaced electric pulses per _____ called clock cycles.
- a. second
 - b. millisecond
 - c. microsecond
 - d. minute
30. Assembler is used as a translator for?
- a. Low level language
 - b. High Level Language
 - c. COBOL
 - d. C
31. What do you call a program in execution?
- a. Command
 - b. Process
 - c. Task

- d. Instruction
32. A software that can be freely accessed and modified.
- a. Synchronous Software
 - b. Package Software
 - c. Open-Source Software
 - d. Middleware
33. This characteristic often draws the line between what is feasible and what is impossible.
- a. Performance
 - b. System Evaluation
 - c. Modularity
 - d. Reliability
34. The time that depends on the input: an already sorted sequence that is easier to sort.
- a. Process
 - b. Evaluation
 - c. Running
 - d. Input
35. Which of the following isn't a loop statement?
- a. for
 - b. elif
 - c. while
 - d. do-while
36. A program that can execute high-level language programs.
- a. Compiler
 - b. Interpreter
 - c. Sensor
 - d. Circuitry
37. This cycle, of going through _____ states of running and input/output, may be repeated over and over until the job is completed.
- a. evaluation
 - b. process
 - c. program

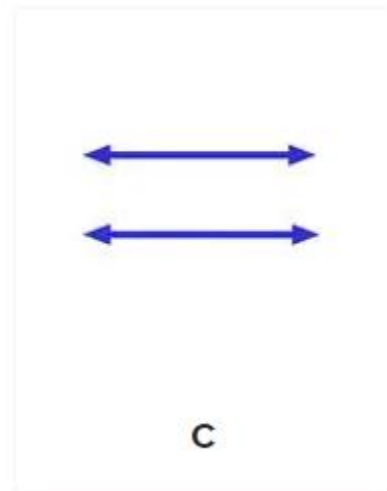
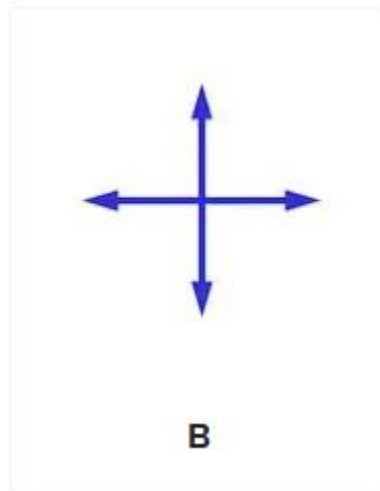
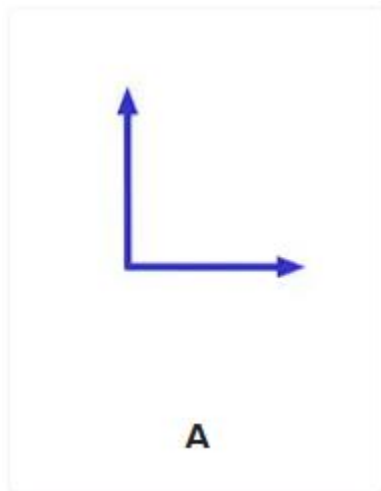
- d. data
38. A single sequential flow of control within a program is _____
- a. Process
 - b. Task
 - c. Thread
 - d. Structure
39. The user can load and execute a program but cannot copy it. This process is?
- a. Execution
 - b. Appending
 - c. Reading
 - d. Updating
40. Memory organization in which users write programs in modules with different characteristics.
- a. Physical
 - b. Logical
 - c. Structural
 - d. Simple

Questions from Geometry

1. Which of these is a ray?



2. Can you identify the set of parallel lines?



3. Which of these is a trapezoid?



A



B



C



D

4. Which formula should you use to find the area of a circle?

$$\frac{h_b b}{2}$$

A

$$\pi r^2$$

B

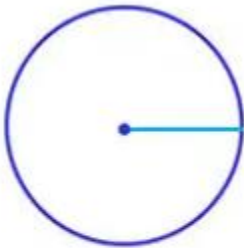
$$2\pi r$$

C

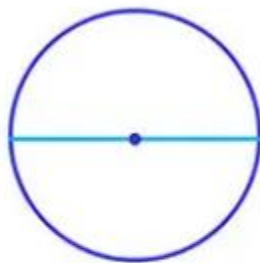
$$a^2 + b^2 = c^2$$

D

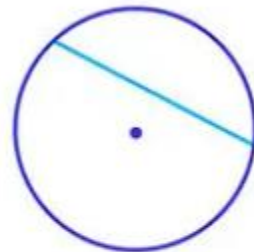
5. Which of these lines depicts the radius of a circle?



A

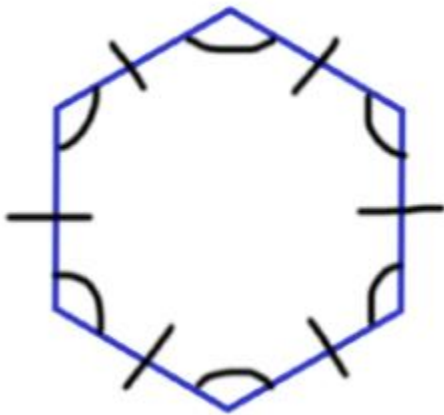


B



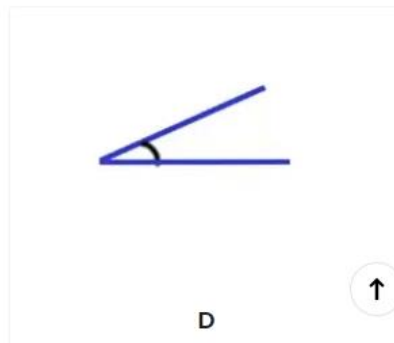
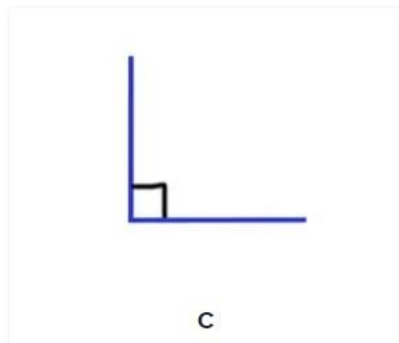
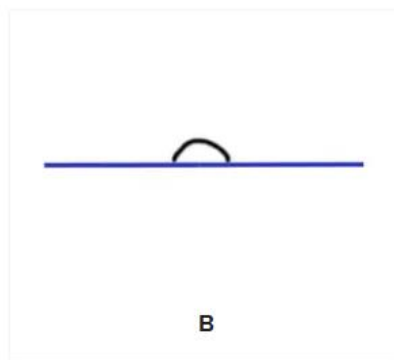
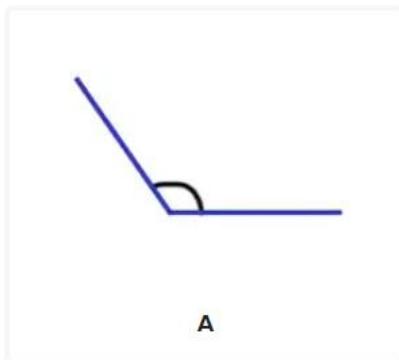
C

6. According to this image, which of the following statements is false?



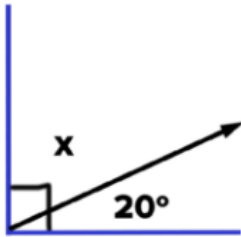
- a. This shape is equilateral.
- b. This shape is hexagon
- c. This shape is Equiangular
- d. This shape has acute angle.

7. Which of these is an obtuse angle?

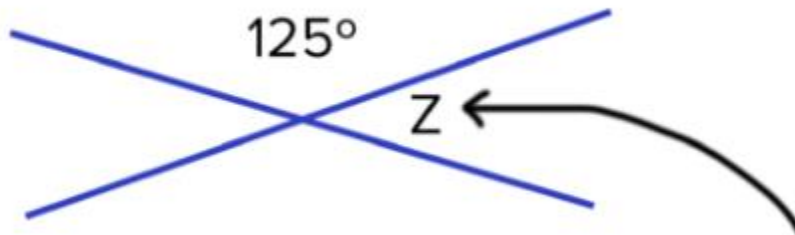


8. What are supplementary angles?
- a. Angles that add up to 90°
 - b. Angles that add up to 180°
 - c. Opposite angles that are equal on measure
 - d. Opposite Angle that add up to 90°

9. What is the value of angle X ?

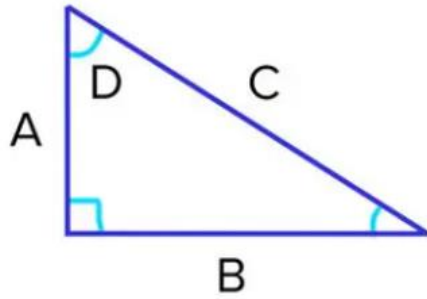


- a. 90°
 - b. 70°
 - c. 160°
 - d. It's impossible to solve for this.
10. What is the value of angle Z?



- a. 35°
- b. 55°
- c. 125°
- d. 235°

11. Which of these is the hypotenuse of the triangle?



- a. A
- b. B
- c. C
- d. D

12. is the following statement true or false?

All squares are rectangles, but not all rectangles are squares.

- a. True
- b. false

13. Identify the type of angle formed between the hands of the given clock



10:30

- a. 15°
- b. 90°
- c. 135°
- d. 270°

14. Which of the following figures is a not polygon?

- ☐ A. 
- ☐ B. 
- ☐ C. 
- ☐ D. 

15. Is the given polygon simple or complex?



- a. Simple
- b. Complex

16. what kind of triangle is this?



- A. Scalene
- B. Isosceles but not equilateral
- C. equilateral

17. Is this shape an irregular polygon?



- a. Yes
- b. No

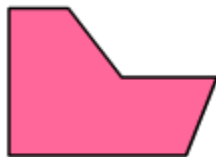
18. Identify the quadrilateral.



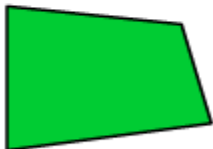
A.



B.



C.



D.



19. How many lines of symmetry does this figure have?



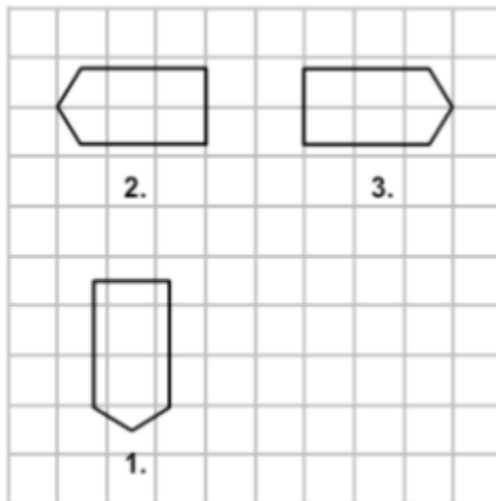
- a. 1
- b. 2
- c. 4
- d. 5

20. Does this figure have rotational symmetry?



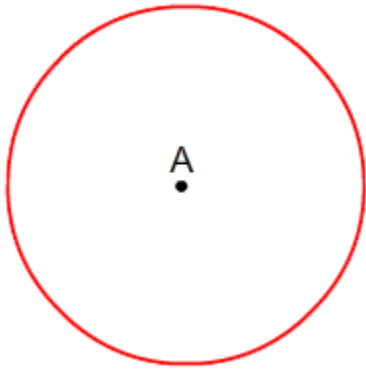
- a. Yes
- b. No

21. What combination of transformations is shown in the given image?



- a. Reflection and then translation
- b. Rotation and then translation
- c. Translation and then rotation
- d. Rotation and then reflection

22. What does A represents in the figure given below?

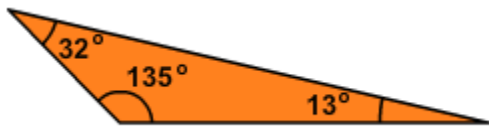


- A. Center
- B. Radius
- C. Diameter
- D. Circumference

23. The diameter of a circle is 25 cm. What is its circumference? Estimate, using 3 for π

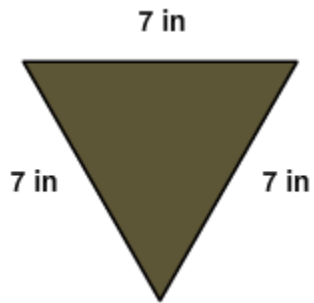
- A. 75cm
- B. 150 cm
- C. 50 cm
- D. 12 cm

24. What type of triangle is this?



- A. Acute
- B. Obtuse
- C. Right

25. Is this triangle equilateral?



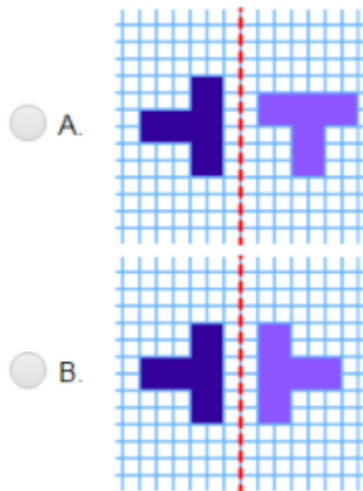
- A. Yes
- B. No

26. Partition the given rectangle into 3 equal rows and 5 equal columns of same-sized squares, and then fill in the given blank. Number of small squares made will be..

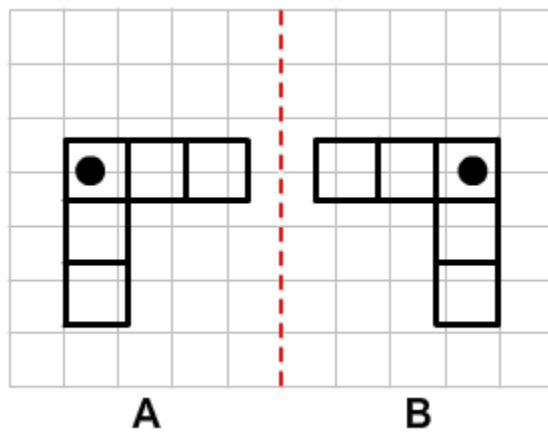


- A. 8
- B. 15
- C. 10
- D. 24

27. Which of the following options shows reflection?

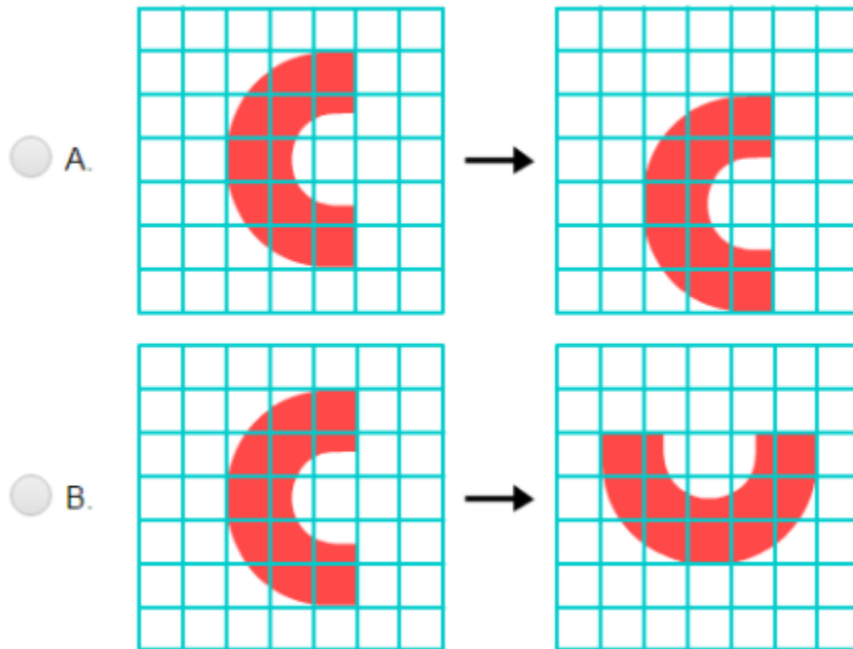


28. Which transformation is shown in the given image?



- A. Reflection
- B. Translation
- C. Rotation

29. Which of the following options shows rotation?

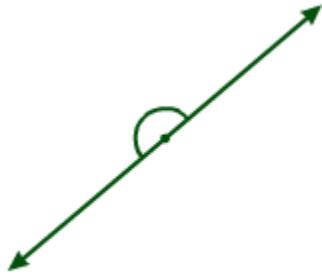


30. Is the dotted line a line of symmetry?



- A. Yes
B. No

31. Which type of angle is this?



- A. Acute angle
- B. Right angle
- C. Obtuse angle
- D. Straight angle

32. Identify the given figure



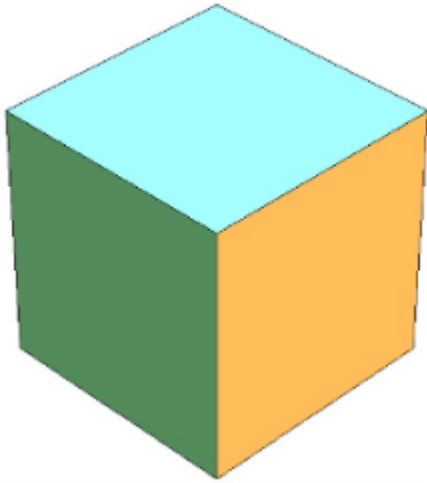
- A. Line
- B. Line segment
- C. Ray

33. Is the given shape open or close?



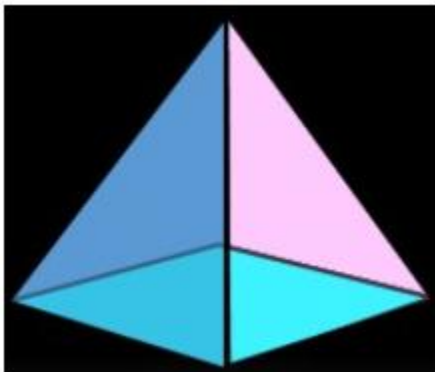
- A. Open
- B. Close

34. How many vertices does this shape have?



- A. 4
- B. 8
- C. 12
- D. 6

35. What shape is this?



- A. Sphere
- B. Triangle
- C. Hexagon
- D. Square based pyramid

36. Which of these is NOT a 3d shape?

- A. Cube
- B. Cylinder

- C. Sphere
- D. Triangle

37. How many faces does a cuboid have?

- A. 3
- B. 4
- C. 5
- D. 6

38. A 3-D shape has been opened up to a flat 2-D shape (a net) and is shown below? What was the 3-D shape?



- A. Sphere
- B. Cylinder
- C. Cone
- D. Cube

39. If there are 9 squares on each face of on a Rubik's Cube, how many squares are there in total?



- A. 15
- B. 27
- C. 45
- D. 54

40. Which of the following 3-D shapes have no vertices or edges?

- A. Hexagonal prisms
- B. Triangular prisms
- C. Cones
- D. Spheres

References

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