Issue #57
May 2013

K.S.R.College of Arts & Science

(Autonomous)

K.S.R.Kalvi Nagar,Tiruchuengode-637215,

Namakkal(DT),Tamil Nadu,India.

Ishare

Monthly Magazine

Ishare

Editorial

We would like to wholeheartedly thank our honorable Chairman, Secretary, Executive Director and Principal for their continuous encouragement and constant support for bringing out the magazine. We profoundly thank our Head of Department for encouraging and motivating us to lead the magazine a successful one right from the beginning. Ishare serves as a platform for updating and enhancing upcoming technologies in Information and Communication. We are grateful to all the contributors to this magazine so far. The magazine has been sent to almost 60 institutions in and around Tamilnadu. So far we have received feedbacks and appreciations from various institutions.

We would be very pleased to receive your feedbacks. Please send your feed backs to ksrcas.ishare@gmail.com

By,

Editorial Board

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List of academic databases and search engines

S.Prema,
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This page contains a representative list of major databases and search engines useful in an academic setting for finding and accessing articles in academic journals, repositories, archives, or other collections of scientific and other articles. As the distinction between a database and a search engine is unclear for these complex document retrieval systems, see:

- the general list of search engines for all-purpose search engines that can be used for academic purposes
- bibliographic databases for information about databases giving bibliographic information about finding books and journal articles.
- This is an incomplete list, which may never be able to satisfy particular standards for completeness. You can help by expanding it with reliably sourced entries.

Name	Discipline(s)	Description	Provider(s)
Academic Commons	Multidisciplinary		Columbia University
Academic Search	Multidisciplinary	Several versions: Complete, Elite, Premier, and Alumni Edition[2]	EBSCO Publishing
AJOL: African Journals OnLine	Multidisciplinary	Scholarly journals published in Africa[5]	African Journals OnLine
Airiti Inc	Multidisciplinary	China, Taiwan.	Airiti Inc
Arnetminer	Computer Science	Online service used to index and search academic social networks	Tsinghua University
arXiv	Physics, Mathematics, Computer science, Nonlinear sciences, Quantitative biology and Statistics		Cornell University
Association for Computing Machinery	Computer Science, Engineering		Association for Computing Machinery

Name	Discipline(s)	Description	Provider(s)
Digital Library			
Citebase Search	Mathematics, Computer science, Physics	Semi-autonomous citation index of free online research	University of Southampton
The Collection of Computer Science Bibliographies	Computer science		Alf-Christian Achilles
DBLP	Computer science	Comprehensive list of papers from major computer science conferences and journals	University of Trier, Germany
IEEE Xplore	Computer Science, Engineering, Electronics		IEEE
Journal Seek	Multidisciplinary	Open access journals in different language	Journal Seek
Lesson Planet	Education (K-12)	Over 400,000 teacher-reviewed classroom resources including lesson plans, worksheets, educational videos, and education articles.	Lesson Planet
Mendeley	Multidisciplinary	The Mendeley research catalog is a crowd sourced database of research documents. Researchers have uploaded nearly 100M documents into the catalog with additional contributions coming directly from subject repositories like Pubmed Central and Arxiv.org or web crawls.	Mendeley
Microsoft Academic Search	Computer Science and a limited extent on information	Provides many innovative ways to explore scientific papers, conferences, journals,	Microsoft

Name	Discipline(s)	Description	Provider(s)
	science	and authors[76]	
National Diet Library Collection	Multidisciplinary	Japanese. Catalog for the National Library of Japan.	National Diet Library
OAIster	Multidisciplinary		OCLC
Open J-Gate	Journals	Index of open access journals	Informatics India
Pubget	Multidisciplinary		Pubget
Questia: Online Research Library	Multidisciplinary (Historical)		Questia
Reader's Guide Retrospective: 1890–1982	Journals and Magazines		H. W. Wilson Company
Russian Science Citation Index	Scientific journals	A bibliographic database of scientific publications in Russian.	Scientific Electronic Library
SafetyLit	Multidisciplinary	Citations and abstracts of journal articles and reports from researchers working in the more than 35 distinct professional disciplines (architecture - zoology) relevant to preventing unintentional injuries, violence, and self-harm.	Graduate School of Public Health, San Diego State University and the World Health Organization's Department of Violence and Injury Prevention
SciDiver.com	Multidisciplinary	SciDiver is an academic paper search engine for the physical sciences. The service currently maintains an index over arXiv, the preprint service for mathematics, physics, astronomy, computer science, quantitative finance and related disciplines; expansion to additional repositories is expected	SciDiver.com

Name	Discipline(s)	Description	Provider(s)
		in the course of the site's continued development.	
SciELO	Journals	SciELO is a bibliographic database and a model for cooperative electronic publishing in developing countries originally from Brazil. It contains 985 scientific journals from different countries in free and universal access, full-text format.	FAPESP, CNPq and BIREME
Science.gov	Multidisciplinary	A gateway to government science information and research results. Science.gov provides a search of over 45 scientific databases and 200 million pages of science information with just one query, and is a gateway to over 2000 scientific Websites.	Science.gov Alliance, 18 scientific and technical organizations from 14 federal agencies that contribute to Science.gov. United States Department of Energy, Office of Scientific and Technical Information serves as the operating agent for Science.gov.
Science Accelerator	Multidisciplinary	A gateway to results of DOE research and development and major R&D accomplishments of interest to DOE.	United States Department of Energy, Office of Scientific and Technical Information.
Science Citation Index	Science (General)	Part of Web of Science	Thomson Reuters
ScienceDirect	Multidisciplinary		Elsevier
Scirus	Science (General)		Elsevier
Scopus	Multidisciplinary		Elsevier

Name	Discipline(s)	Description	Provider(s)
SearchTeam	Multidisciplinary	Students search together collaboratively for scholarly articles and resources	Zakta
Socol@r: Socolar	Multidisciplinary	Scholarly open access resources in different language	Socolar
Springer Link	Multidisciplinary		Springer
Ulrich's Periodicals Directory	Periodicals		Proquest
VET-Bib	Social Science, Education	European vocational education and training (VET) literature	European Centre for the Development of Vocational Training
Web of Knowledge	Multidisciplinary	Includes other products, such as Web of Science, Biological Abstracts & The Zoological Record	Thomson Reuters
Web of Science	Science (General)	Includes other products, such as Social Science Citation Index & Science Citation Index.	Thomson Reuters
WestLaw	Law (General)		Thomson Reuters
World Cat	Multidisciplinary	Unified catalog of member libraries' catalogs	OCLC
Worldwide Science	Multidisciplinary	Worldwide Science is a global science gateway composed of national and international scientific databases and portals. Worldwide Science accelerates scientific discovery and progress by providing one-stop searching of databases from around the world. Multilingual WorldWideScience provides real-time searching and translation	The Worldwide Science Alliance, a multilateral partnership, consists of participating member countries and provides the governance structure for Worldwide Science. United States Department of Energy, Office of Scientific and Technical

Name	Discipline(s)	Description	Provider(s)
		of globally dispersed multilingual scientific literature.	Information serves as the operating agent for Worldwide Science.
Zasshi Kiji Sakuin: Japanese Periodicals Index	Journals	Japanese.	National Diet Library's Online Catalog, MagazinePlus, CiNii

Amazing computer tricks

C.Gnanasekaran

I-B.sc (cs)-"A"

This Article contains some interesting computer tricks which I have learnt over the past few days. I hope all of you enjoy them!

1. Shaking Browser Trick

This one is one of the funniest computer tricks I have learnt so far. Follow the steps below to learn this trick:

Copy the Java code below,

javascript:function Shw(n) {if (self.moveBy) {for (i = 35; i > 0; i--) {for (j = n; j > 0; j--) {self.moveBy(1,i);self.moveBy(i,0);self.moveBy(0,-i);self.moveBy(-i,0); } } }} Shw(6)
· Paste the code in the address bar of your browser and click Enter.

You will be amazed when you see that your web browser starts shaking!

2. Folder Without A Name
Do you know that it is possible to create a folder without a name? Indeed, you can create a folder without any name at all! Follow the steps below to create a folder without any name:

· Firstly, remove the old name. (right click , rename and click delete)
· Then, press and hold down the ALT button and type 0160, then press Enter.

Important: Make sure you have switched on the number pad of your computer when you type "0160".

Important thing to notice: You should type the code 0160 by holding the Alt button. You must Hold down the ALT button. You must type the code by using the number pads. In some laptops the number pads are hidden and difficult to use. First turn on the number lock by using FN+Nmlk and then type the code from the right hand side pad of your laptop. Do not use the horizontal number keys.

3. Increase your Computer Speed
this trick will help your computer work faster than ever before. To increase the speed of your computer, please follow the steps below:
· Go to start, click run and then type “regedit”
· Select "HKEY_CURRENT_USER”, then select control panel folder and after that select the desktop folder. Make sure you do it correctly.
· You will see "registry setting" on your right hand side. After, select "menu show delay”, then right click on it and select "modify".
· You will find "edit string option" where the "default value data is 400". Change the Value Data to 000.
· Restart you computer after completing the above process. You will notice a significant change in your computers’ speed!

4. Notepad Trick
Open notepad and type .LOG in capital letters and press ENTER. You can record the exact date and time by using this trick.

5. Reserved Keyword Trick
Do you know that it is not possible make a folder with the name "con”? No matter how many times you try to make a folder with the name "Con", you won't be able to do it.
The reason: Con is a "reserved keyword" used by DOS, so you can't create a folder with that keyword. However, there is a way to create a folder with the name “CON”. To do this, go to the command prompt and type "MD \\.\E:\CON” . This will create a folder named CON in the E drive of your Computer.

6. Strange Font
Open your notepad and increase the font size to 72, then change the font to Windings. Afterwards, type your name in capital letters. You'll be surprised to see some peculiar symbols!

7. Desktop Wallpaper Prank
Take a screen shot of your desktop and then open the image and set it as your desktop background. Now, hide all the icons from your desktop. Also, unlock the task-bar. Now your desktop will look exactly the same as before, but all of the icons will not be clickable! This trick could easily confuse anyone and is a fun trick to play on some friends.

8. Microsoft Word Trick
Simply open up Microsoft Word and type =Rand (200, 99), then press enter. Hopefully you enjoy the magic!

ROLL LAPTOP

J.RATHI M.Sc., M.Phil.,

Assistant Professor

Department of Computer Science

Introduction

The rolltop laptop is hyped as being the portable computer of the future. It is made of super-thin OLED panels, can act as a laptop or a tablet computer and provides users with convenience and state of the art computer design.

OLED Functionality

Organic Light Emitting Diodes are ultra-thin panels coated with an organic compound that emits light based on the amount of electricity it receives. Because the panels are so small, they can be mounted on flexible materials, paving the way for flexible monitors, laptops and touch screen devices. The advantages of OLED technology, according to OLED-Display.net, include wider viewing angles, superior color reproduction and portability on a scale impossible before OLED was developed.

The core of the roll top laptop serves as the container when the machine is not in use, houses the central processing unit and provides connectivity and power conversion for the laptop. Video demonstrations show the roll top OLEDs separate from the core, and the column then plugs into a conventional power source, and connects sound, video and other peripherals.

Multi-Application

- To operate in different modes
- The panels can serve as a computer monitor
- The computer can be put into tablet mode for intense graphical work.
- The OLED panels convert into a dual-level machine.

Portability

The rolltop laptop is designed to be sleek and portable.

1. When completely closed, the entire machine is no larger than an average purse, with the power cord
2. Roll top laptop and central column all stored securely in a handy cylindrical container, with the power cord acting as a carrying strap.

Future of roll top

The roll top laptop is being marketed as the logical next step in personal, portable computing. The idea is that the roll top laptop is going to be a major player in the laptop and tablet market, and each pre-ordered sale is treated as an investment into the future of computing.

IMAGE PROCESSING

N.Shanmugapriya. M.Sc.,M.Phil.,

Assistant Professor, Dept.of.Computer Science

What is Image processing?

- study of any algorithm that takes an image as input and returns an image as output.

It Includes:

- display and printing
- editing and manipulation
- enhancement
- Feature detection
- compression

Types of Image processing

Analog :

- used for the hard copies like printouts and photographs.

Digital :

- help in manipulation of the digital images by using computers.

Purpose of image processing

- 1. Visualization - Observe the objects that are not visible.
- 2. Image sharpening and restoration - To create a better image.
- 3. Image retrieval - Look for the image of interest.
- 4. Measurement of pattern – Measures various objects in an image.
- 5. Image Recognition – Distinguish the objects in an image.

Color images

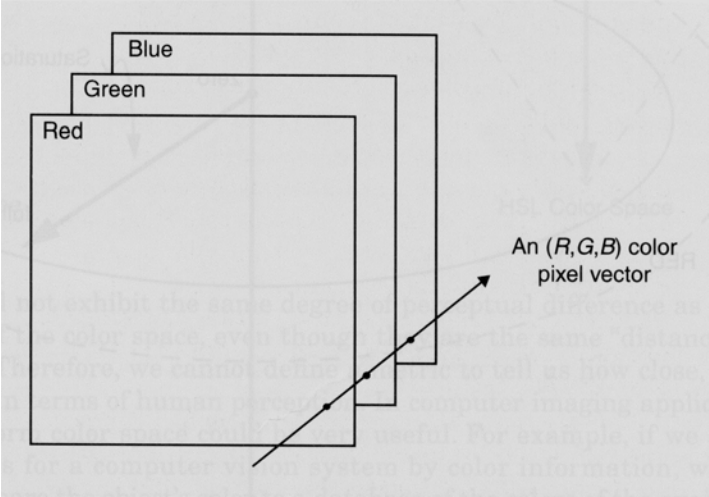


Image digitization

- **Sampling** means measuring the value of an image at a finite number of points.
- **Quantization** is the representation of the measured value at the sampled point by an integer.

Image sampling (example)

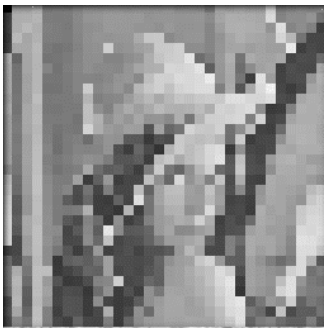


Image Quantizing(example)

Image Enhancement

- Algorithms that take a degrade image or sequence of images as a input and produce an image or sequences of images in better quality
- Inputimage -> Enhancement -> Better image
- Two types

  Spatial Domain Methods

  Frequency Domain Methods

Image Restoration

- The purpose of image restoration is to "compensate for" or "undo" defects which degrade an image.
- Degradation comes in many forms such as motion blur, noise, and camera misfocus.
- Filters are used for avoid the blur or noise

  Filters

- Process used in both analog and digital image processing to reduce bandwidth.

- Adjacent the pixels or create new value for the pixels Two types:
- Low pass Filtering(Smoothing)
- High pass Filtering

Image segmentation

- It is the process of partitioning a digital image into multiple segments (sets of pixels, also known as super pixels).
- The goal of segmentation is to simplify and/or change the representation of an image into something
- This is more meaningful and easier to analyze.

Thresholding

- The simplest method of image segmentation is called the thresholding method.
- Separate out regions of an image corresponding to objects which we want to analyze.
- This separation is based on the variation of intensity between the object pixels and the background pixels.

Image compression

- Minimizing the number of bits for represent an image.

Applications:

- remote sensing via satellite,
- military communication via aircraft,

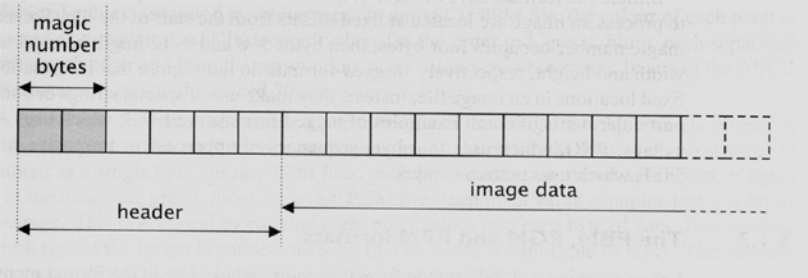
- teleconferencing,
- educational & business documents

Image formation

- There are two parts to the image formation process:
- The geometry of image formation, which determines where in the image plane the projection of a point in the scene, will be located.
- The physics of light, which determines the brightness of a point in the image plane as a function of illumination and surface properties.

Image file formats

- Many image formats adhere to the simple model shown below
- The header contains at least the width and height of the image.
- Most headers begin with a signature or "magic number" - a short sequence of bytes for identifying the file format.



Common image file formats

- GIF (Graphic Interchange Format)
- JPEG (Joint Photographic Experts Group)
- TIFF (Tagged Image File Format)
- PGM (Portable Gray Map)
- FITS (Flexible Image Transport System)
- PNG (Portable Network Graphics)

Applications

- Medicine (radiological diagnoses, microscopy)
- Defense (infrared, satellites, etc.)
- Robotics / machine vision
- Human / computer interfaces (face / fingerprint “recognition” for security, character recognition)
- Compression for storage, transmission from space probes, etc.
- Entertainment industry
- Manufacturing
- Fundamental methods and principles that apply across many applications.

Mathematics in Image processing

- Calculus
- Linear Algebra
- Probability and Statistics
- Differential Equations
- Differential Geometry
- Harmonic Analysis (Fourier, wavelets, etc)

Image processing software

- Intel Open Computer Vision Library
- CVIPtools (Computer Vision and Image Processing tools)
- Microsoft Vision SDL Library
- Matlab
- Khoros

Placement Puzzles

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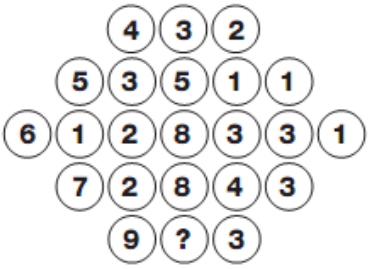
1.

What number comes inside the circle?

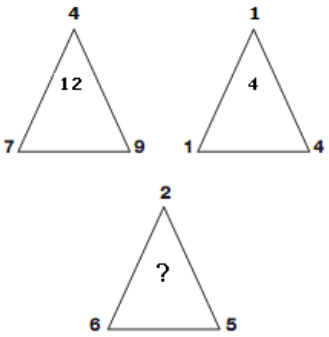


Answer: 6

Looking at the diagram in rows, the central circle equals half the sum of the numbers in the other circles to the left and right of the centre.

2.

Which number replaces the question mark?

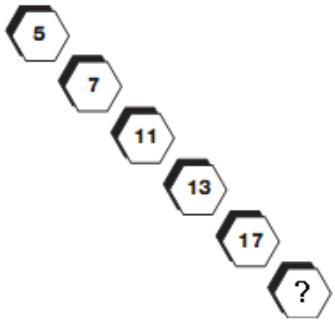


Answer : 9

The number at the centre of each triangle equals the sum of the lower two numbers minus the top number.

3.

Which number completes the puzzle?

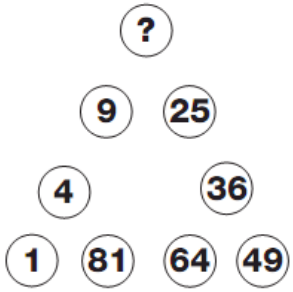


Answer : 19

As you move diagonally down, numbers follow the sequence of Prime Numbers.

4.

Which number replaces the question mark?



Answer : 16

Starting bottom left and moving clockwise around the triangle, numbers follow the sequence of Square Numbers.

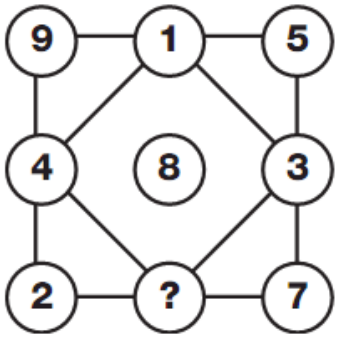
Which number replaces the question mark?

Answer : 39

Working from top to bottom, double each number and subtract 1, then 2, then 3 etc.

6.

Which letter replaces the question mark?



Answer : 6

The numbers in each row and column add up to 15.

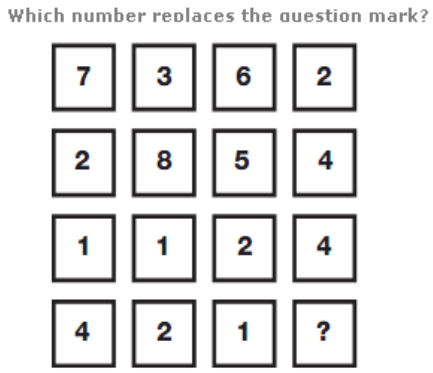
7.

What is missing from the hexagon?

Answer : 40

Moving from left to right, numbers increase by 2,3,4 and 5.

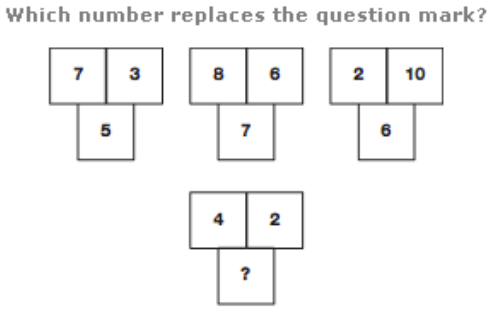
8.



Answer : 4

Working in columns, the sum of the numbers in each column is always 14.

9.

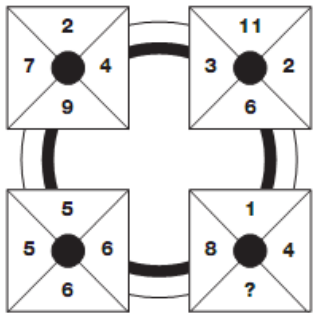


Answer : 3

In each group of 3 numbers, the lower number equals the average of the top two numbers.

10.

Which number replaces the question mark?

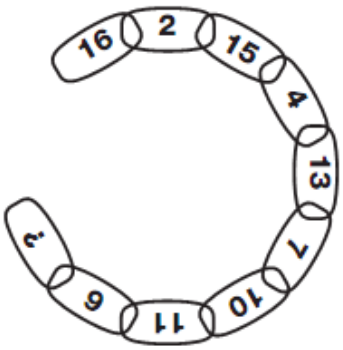


Answer : 9

In each square of the diagram, the sum of the numbers is always 22.

11.

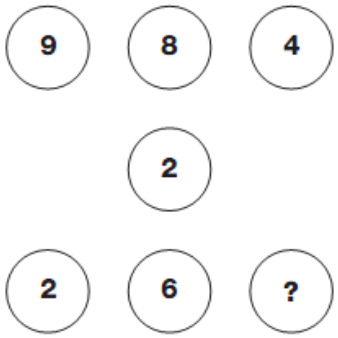
Which number replaces the question mark?



Answer : 16

Moving clockwise, around alternate segments in the chain, one sequence decreases by 1, 2, 3 and 4 each time, while the other increases by 2, 3, 4 and 5.

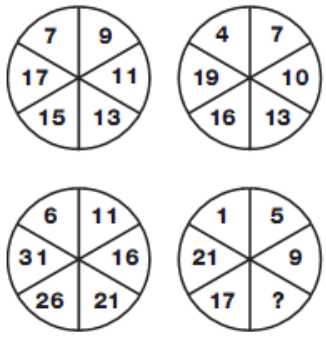
Which number replaces the question mark?



Answer : 7

Starting with the numbers in the top row, and following straight lines through the centre of the diagram, subtract the middle number from the top number to give the corresponding value on the bottom row.

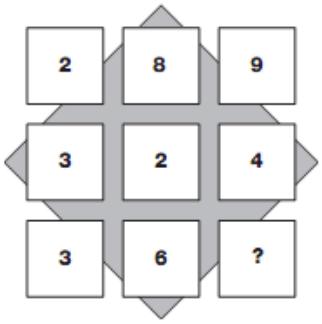
Which number replaces the question mark?



Answer : 13

In each circle, starting at the top left segment, numbers increase, as you move clockwise, by 2 for the upper left circle, 3 for the upper right, 4 for the lower right and 5 for the lower left.

Which number replaces the question mark?



Answer : 1

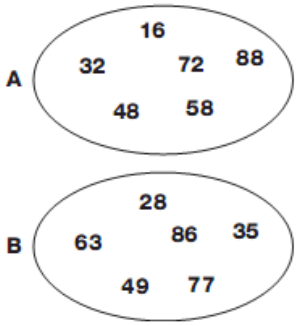
Reading each row as a 3 digit number, the rows follow the sequence of square numbers, from 17 to 19.

Which number replaces the question mark?

Answer : 8,1

Reading each row as 3 separate 2-digit numbers, the central number equals the average of the left and right hand numbers.

Which number is the odd one out in each oval?



Answer : A:58 B:86

In the first oval, all numbers are multiples of 8, and in the second, they are all multiples of 7.

CYBERATTACKS

Mrs.J.Mary Dallfin Bruxella
Assistant Professor, Dept of CS
KSRCAS

Introduction

A cyberattack is deliberate exploitation of computer systems, technology-dependent enterprises and networks. Cyberattacks use malicious code to alter computer code, logic or data, resulting in disruptive consequences that can compromise data and lead to cybercrimes, such as information and identity theft. Cyberattack is also known as a computer network attack (CNA).

Cyber Weapon

- A **cyber weapon** is a malware agent employed for military, paramilitary, or intelligence objectives.
- A cyber weapon performs an action which would normally require a soldier or spy, and which would be considered either illegal or an act of war if performed directly by a human agent of the sponsor during peacetime.
- Legal issues include violating the privacy of the target and the sovereignty of its host nation.

Characteristics

- **Surveillance** of the system or its operators,
  - including sensitive information, such as passwords and private keys
- **Theft** of data or intellectual property, such as:
  - proprietary information of a business
  - classified information of a government or military
- **Destruction** of one or more of the following:
  - Data or executable code (programs) on the system, or other connected systems
  - Less frequently, damage to or destruction of computer hardware
  - In the most extreme case, damage to an electromechanical or process control system such that a serious industrial accident results in loss of life or property beyond the system, or major economic damages.

Malware agents are 1) FLAME 2) STUXNET 3) WIPER

Stuxnet is a computer worm discovered in June 2010 that is believed to have been created by the United States and Israel to attack Iran's nuclear facilities. Stuxnet initially spreads via Microsoft Windows, and targets Siemens industrial software and equipment.

While it is not the first time that hackers have targeted industrial systems, it is the first discovered malware that spies on and threatens industrial systems.

Wiper is the section of the Shamoon agent (generally regarded as either a cyberweapon or at least as malware)responsible for destroying data on the target's hard disk (or similar storage).

Flame was identified in May 2012 by MAHER Center of Iranian National CERT, Kaspersky Lab and CrySyS Lab. Flame is an uncharacteristically large program for malware at 20 megabytes. It is written partly in the Lua scripting language with compiled C++ code linked in, and allows other attack modules to be loaded after initial infection. The malware uses five different encryption methods and an SQLite database to store structured information.

Conclusion

In summary, we expect to see the number of targeted attacks will continue to grow. Cybercriminals will begin using new infection methods, as the effectiveness of existing methods diminishes. The range of targeted businesses and areas of economic activity will expand. Multiple attacks on various government institutions and businesses will be carried out all over the world.

S.V.Vetrivel,

II B.Sc (CS)-C

This is the article that I have experienced lights in my keyboard is changed to a disco light

Open a blank notepad

And type the following

```
Set wshShell =wscript.CreateObject("WScript.Shell")
do
wscript.sleep 100
wshshell.sendkeys "{CAPSLOCK}"
wshshell.sendkeys "{NUMLOCK}"
wshshell.sendkeys "{SCROLLLOCK}"
loop
```

save it as xxx.vbs

Open it now you can see the magic

HOW TO RESIZE IMAGES ON ANY WEBPAGE

R.Nirmala,

Lecturer in Dept of CS,

KSRCAS

- it's a simple java script.
- which allow the user to edit and resize the images on any web page.
- open browser
- log on to any web site
- copy and paste the below code in address bar

javascript: document.body.contenteditable ='true'; document.designmode='on'; void 0

- press enter
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