

PRACTICE

TASK 1: Match the Terms by Category

| Category | Terms |
|------------------|-------|
| Raster Graphics | |
| Vector Graphics | |
| Fractal Graphics | |

JPG / .JPEG .SVG Mandelbrot set Iterated Function Systems .PNG Infinite perimeter .EPS Pixels Koch Snowflake Self-similarity
TIFF Control points Recursive iteration Lossy image quality Sierpinski Carpet Paths and strokes Bézier curve Resolution independence

TASK 2: Complete the sentences using appropriate words

1. A _____ is the smallest unit of a raster image, containing color information for a specific point on the screen.
2. The _____ set is a famous example of a fractal created by recursive mathematical formulas.
3. In _____ graphics, images are created using mathematical equations that define shapes such as lines and curves.
4. The _____ format is best for photographs because it supports millions of colors and uses lossy compression.
5. Unlike vector images, _____ graphics lose quality when scaled up significantly.
6. A _____ curve is used in vector graphics to create smooth, scalable paths and shapes.
7. The _____ snowflake is a fractal that has an infinite perimeter but encloses a finite area.

TASK 3: Choose the correct answer

What is the basic element of vector graphics?

a) Pixel b) Frame c) Pat

Which graphics type often uses recursion to create complex patterns?

a) Fractal b) Vector c) Raster

Which of these is a lossless image format?

a) JPEG b))PNG c) BMP

TASK 4: Match each graphics-related term with its correct function from the list below

| Terms | Function |
|-----------------|----------|
| Pixel | |
| SVG | |
| JPEG | |
| Fractal | |
| Plotter | |
| Raster graphics | |

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TASK 5: Place the services and programs in the correct

| Category | Online services and programs |
|------------------|------------------------------|
| Raster Graphics | |
| Vector Graphics | |
| Fractal Graphics | |

Adobe Photoshop Adobe Illustrator FractalNow Inkscape Apophysis CorelDRAW GIMP Fotor XFractal Tugui Shou
Corel Vector Janvas JWildfire Vectr Zhongke Fractal Art Tool Caoliao Editor

TASK 6: Select the correct answer from the list

1. The most common raster image format used for digital photography is .
2. The first devices that physically drew computer images using pens were called .
3. The color model mainly used in professional printing is .
4. A vector image consists of mathematical descriptions of lines and curves, commonly known as .
5. One of the most popular free programs for creating vector illustrations is .
6. The first computer animation of a walking cat was created in .
7. The RGB color model is primarily used for .
8. A key drawback of raster images is that they when scaled up.
9. The inventor of the Sketchpad graphics system was .
10. The raster image format that allows for simple animations is .
11. Graphics based on recursive patterns and self-similarity are known as graphics.
12. The color model that represents colors using hue, saturation, and value is called .

TASK 7: Match each audio processing term with its correct description.

| Terms | Description |
|---------------|-------------|
| Anti-aliasing | |
| Layer | |
| Clipping mask | |

TASK 8: Multiple Select

Which of the following are vector graphic file formats?

PNG
 SVG

AI
 JPEG

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TASK 9: Mark each sentence as True or False

1. Raster graphics lose quality when enlarged beyond original size. True False
2. Vector shapes can be scaled infinitely without any quality loss. True False
3. BMP is a compressed image format commonly used for sharing images online. True False
4. A histogram in image editing shows the distribution of brightness levels in an image. True False
5. CMYK is mainly used in digital displays and video rendering tools. True False
6. The PNG file format supports both transparency and lossless data. True False
7. Fractal graphics are generated using pixel layers and color filters. True False
8. Layers in graphic editors allow users to separate different visual elements. True False
9. The TIFF format is suitable for high-quality printing and archiving. True False
10. The term "bitmap" is often used as a synonym for raster graphics. True False

Match each example with the correct type of graphic processing service.

Example

processing service

Removing blemishes from a photo

Fractal Generation

Creating a company logo using shapes and curves

Image Retouching

Generating a geometric pattern using recursion

Vector Illustration

TASK 11: Match the Cloud Audio Service with Its Purpose

Cloud Services

Purposes

Corel Vector

Collaborative vector-based UI/UX design tool

MasterGo

Online raster editing similar to Photoshop

Photopea

Cloud-based vector graphics editing

TASK 12: Select the two that do NOT belong in the category "Graphic formats"

Which two items are NOT graphic file formats?

PNG

RGB

CMYK

PSD