

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 Fator XFractal Tuguai Shou
 Corel Vector Janvas JWildfire Vectr Zhongke Fractal Art Tool Caoliao Editor

TASK 6: Select the correct answer from the list

- The most common raster image format used for digital photography is _____.
- The first devices that physically drew computer images using pens were called _____.
- The color model mainly used in professional printing is _____.
- A vector image consists of mathematical descriptions of lines and curves, commonly known as _____.
- One of the most popular free programs for creating vector illustrations is _____.
- The first computer animation of a walking cat was created in _____.
- The RGB color model is primarily used for _____.
- A key drawback of raster images is that they _____ when scaled up.
- The inventor of the Sketchpad graphics system was _____.
- The raster image format that allows for simple animations is _____.
- Graphics based on recursive patterns and self-similarity are known as _____ graphics.
- 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 ☐ AI
☐ SVG ☐ 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

Removing blemishes from a photo

Creating a company logo using shapes and curves

Generating a geometric pattern using recursion

processing service

Fractal Generation

Image Retouching

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