

# 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
<i>Pixel</i>	
<i>SVG</i>	
<i>JPEG</i>	
<i>Fractal</i>	
<i>Plotter</i>	
<i>Raster graphics</i>	

## PRACTICE

### 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



## PRACTICE

### 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