

Bitmap Graphics

Computing Science - Basics

Targets

- I can **define** the term bitmap graphic
- I can **define** the term pixel
- I can **define** the term resolution
- I can **explain** how resolution affects image quality
- I can **identify** the resolution of a bitmap graphic
- I can **create** a bitmap graphic

Name:

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Class:

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Teacher:

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Mark:

/22

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Task 1

1. What is bitmap graphic? **(1 mark)**
 - A. A square on a bitmap grid
 - B. A grid of pixels
 - C. An image from the printer
 - D. The number of pixels in an image

2. What is a pixel? **(1 mark)**
 - A. A square on a bitmap grid
 - B. A grid of pixels
 - C. An image from the printer
 - D. The number of pixels in an image

3. What does resolution mean when describing a bitmap image? **(1 mark)**
 - A. A square on a bitmap grid
 - B. A grid of pixels
 - C. An image from the printer
 - D. The number of pixels in an image

4. How will a high resolution affect the quality of a bitmap? **(1 mark)**
 - A. The graphic will have limited details
 - B. It will reduce the number of pixels
 - C. It will give the image more colours
 - D. The graphic will be able to show more detail



Task 2

Draw a line to match each term with its definition.

(3 marks)

Term
Bitmap graphic
Pixel
Resolution

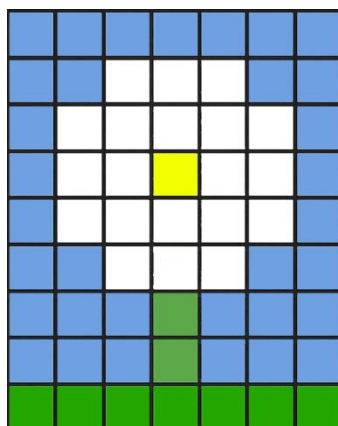
Description
The number of pixels in an image
Grid of pixels
A square on a bitmap grid

Task 3

bitmap	detail	grid
pixel	pixels	pixels
lower	higher	resolution

Fill in the blanks using the table above.

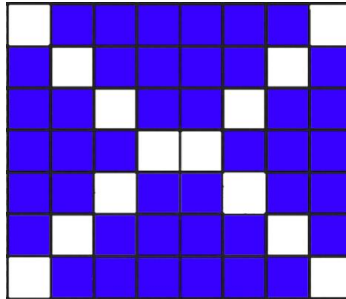
- A. A _____ is one square in a bitmap graphic. (1 mark)
- B. _____ describes the number of _____ in an image. (2 marks)
- C. A _____ graphic is created using a _____ of _____. (3 marks)
- D. A _____ resolution allows for more _____ compared to a _____ resolution. (3 marks)



Task 4

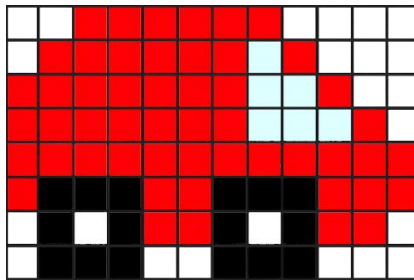
A. Identify the resolution of this bitmap graphic.

(2 marks)



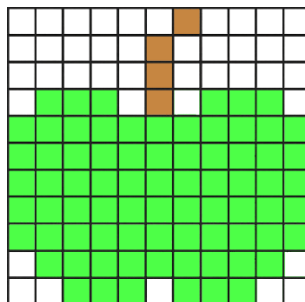
B. Identify the resolution of this bitmap graphic.

(2 marks)



C. Identify the resolution of this bitmap graphic.

(2 marks)



Task 5

Create the following bitmaps using <https://www.piskelapp.com/> and insert the pictures into the boxes.

- A. Create a bitmap of a **smiley face**.

- B. Create a bitmap of a **house**.

- C. Create a bitmap of a **dog**.

- D. Create a bitmap of a **famous logo**.

Check your understanding

1. Mark your answers

Mark your answers using the study kit at www.superstudyparty.com

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Mark:	/22
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2. Tick your targets

1. Tick the targets you have achieved
2. Give evidence of each achieved target - "Task 1a"



<input checked="" type="checkbox"/> Targets	Evidence
<input type="checkbox"/> I can define the term bitmap graphic	
<input type="checkbox"/> I can define the term pixel	
<input type="checkbox"/> I can define the term resolution	
<input type="checkbox"/> I can explain how resolution affects image quality	
<input type="checkbox"/> I can identify the resolution of a bitmap graphic	
<input type="checkbox"/> I can create a bitmap graphic	

3. Study

Continue your study at www.superstudyparty.com

Computing Science → S1-S3 → Computing Science - Basics → Bitmap Graphics

PLAY

Target(s) I will study	Study Method
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> Super Study Party <input type="checkbox"/> Study Cards <input type="checkbox"/> Mind Map <input type="checkbox"/> Write notes <input type="checkbox"/> Other