Year 8 Term 1 Computing test
Topic 1: Binary and online graphics

P Pearson

Name: _____

Class: _____ **Date:** _____

1 A digital animator is working on a short film. She is using vector graphics to create the backgrounds and characters.

a) Which of these is **not** normally an instruction used to create a vector? Tick **one** box.

    A start point ☐

    B line thickness ☐

    C end point ☐

    D resolution ☐

1

b) State **two** benefits of using vector graphics compared to bitmap graphics.

1 _____

2 _____

2

c) What is another word for the x and y values that specify the location of a vector point?
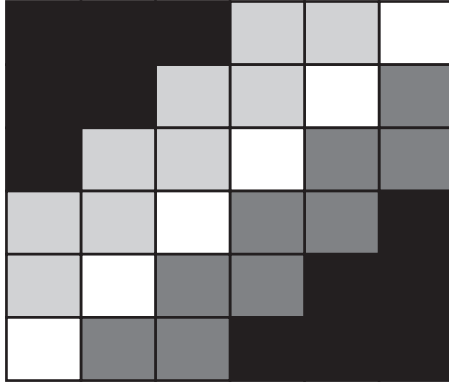
_____

1

2 A 2-bit bitmap graphic can hold one of four colours in each pixel.

a) Complete the **two** missing lines of binary in the table.

11	11	11	01	01	00
11	11	01	01	00	10
11	01	01	00	10	10
00	10	10	11	11	11

b) In a bitmap graphic, what is the changing of one colour to another called? Tick **one** box.

A gradient ☐

B background ☐

C pixel ☐

D sketch ☐

3 Complete the following binary additions. Give your answer in binary.

a)   0 1 1 0 1 0 1 0
       0 0 1 0 0 1 0 0
       _____

       _____

b)   0 0 0 0 0 1 0 0
       1 1 1 1 0 0 0 0
       _____

       _____

c)   1 0 1 0 1 0 1 0
       0 1 0 1 0 1 0 1
       _____

       _____

4 A magazine editor has been sent an image from a smartphone that he is hoping to use in the latest printed issue. In order to fit, the image must be increased in size.

a)   The image has a resolution of 150ppi. What does ppi stand for?

_____

b)   State **one** thing that will happen if the bitmap image is increased in size.

_____

_____

Total for test: 12 marks

My score: ☐ **marks**

What went well

How to improve