Year 8

Autumn Assessment 2025

Computing

Time limit: 50 mins

No of Questions: 24

Total Marks: 30

Questions

1) What is the name for each unique box on a spreadsheet? Tick **ONE** (1 mark)

	A) Formula
X	B) Cell
	C) Row

Figure 1

	A	B	C	D	E
1	**Pencil**	**Cost**	**Quantity**	**Cost**	**Cost+Delivery**
2	Red	£0.30	3	£0.90	£0.90
3	Green	£0.40	8	£3.20	£3.20
4	Blue	£0.20	5	£1.00	£1.00
5	Yellow	£0.40	2	£0.80	£0.80
6	Gold	£0.99	4	£3.96	£3.96
7					
8	**Delivery**	£0.75			

2) Write down the cell reference for the cell containing the word "**Gold**" in **figure 1** (1 mark)

Cell Reference: A6

3) Write down the formula that has been used to calculate the cost in cell D2 of **figure 1** (2 marks)

Formula: = =B2*C2

Figure 2

	A	B	C	D	E	F	G
1	1	times	=G3	is			
2	2	times		is			Multiplier
3	3	times		is			5
4	4	times		is			
5	5	times		is			

4) What term is used to describe the type of cell reference used in cell C1 of **figure 2**? Tick **ONE** (1 mark)

X	A) Absolute Cell Reference
	B) New Cell Reference
	C) Wide Cell Reference

5) What is the specific purpose of the **MIN** function? (1 mark)

	A) It will calculate the total of a range of values
	B) It will calculate the average of a range of values
X	C) It will calculate the minimum value in a range of values

Figure 3

	A	B
1	Computing Grades	
2		
3	**Name**	**Score/100**
4	Peter	70
5	Vaneet	69
6	Mary	84
7	Zak	32
8		
9	**TOTAL**	

6) Which function would be used to calculate the total in cell B9 in **figure 3**? Tick **ONE** (1 mark)

	A) =AVERAGE(B4:B7)
	B) =MIN(B4:B7)
X	C) =SUM(B4:B7)
	D) =MAX(B4:B7)

7) What is the name for a single 1 or 0 in Binary? Clue, begins with “b” (1 mark)
bit

8) How many bits are there in a Nibble? (1 mark)
4

9) What is the name for a collection of 8 bits? (1 mark)

	A) Nibble
	B) Megabyte
X	C) Byte

10) Convert the following 4-bit Binary value into Denary (1 mark)

8	4	2	1
0	1	0	1

Answer: 5

11) Convert the Denary number **13** into a 4-bit Binary value (1 mark)

8	4	2	1
1	1	0	1

12) What is the largest number that can be made using a 4-bit Binary value? (1 mark)
15

13) Convert the following 8-bit Binary value into Denary (1 mark)

128	64	32	16	8	4	2	1
0	0	1	0	0	1	0	1

Answer: 37

14) Convert the Denary number **102** into an 8-bit Binary value (2 marks)

128	64	32	16	8	4	2	1
0	1	1	0	0	1	1	0

15) What is the largest number that can be made using an 8-bit Binary value? (1 mark)

255

16) Complete the following 4-bit Binary Addition (2 marks)

0	1	1	1	
0	0	1	1	+
1	0	1	0	Sum
1	1	1		Carry

- 1 mark for sum line
- 1 mark for carry line

17) Complete the following 4-bit Binary Addition (2 marks)

	0	1	1	0	
	1	1	0	1	+
1	0	0	1	1	Sum
	1				Carry

- 1 mark for sum line
- 1 mark for carry line AND overflow

18) An overflow error has occurred in the previous question; do we ignore the overflow bit? Tick **ONE** (1 mark)

X	A) Yes
	B) No

19) What is the name for the squares that make up an image? Tick **ONE** (1 mark)

	A) Blocks
	B) Bytes
X	C) Pixels

20) The total number of pixels used to make up an image is called: Tick **ONE** (1 mark)

X	A) Resolution
	B) Frequency
	C) Colour Depth

21) What does the term **Colour Depth** mean? Tick **ONE** (1 mark)

	A) The brightness of the image
	B) The size of the image on a screen
X	C) The number of bits used to store each pixel

22) Identify **ONE <u>benefit</u>** of increasing the number of pixels in an image: Tick **ONE** (1 mark)

	A) The resolution of the image reduces
	B) The image becomes blurry
X	C) The quality of the image improves

23) Identify **ONE <u>drawback</u>** of increasing the number of pixels in an image: Tick **ONE** (1 mark)

X	A) The file size of the image will increase
	B) The quality of the image reduces
	C) The resolution of the image reduces

24) Match the keywords to the definitions. Draw a line between each keyword and its definition. (3 marks)