

Practice Questions – END OF SEMESTER 1

COMPUTING

Unit 1: Under the hood of a computer

LO: Understand the differences between ICT and Computing

ICT is all about how to use a computer?

- A** TRUE (1)
- B** FALSE

Computing is all about how a computer works?

- A** TRUE (1)
- B** FALSE

Which one of these devices is an input device? Tick two

- A** Monitor
- B** Printer
- C** Keyboard
- D** Microphone

Which one of these devices is an output device?

- A** Speakers
- B** Digital Camera
- C** Mouse
- D** Keyboard

YEAR 7

Complete the sentence below by selecting the correct answer.

The CPU is used to _____ instructions.

- A** Unit
- B** Control
- C** Pass
- D** Execute

(1)

A CPU carries the instructions of a computer program? Tick one box

- A** TRUE
- B** FALSE

(1)

YEAR 7

How many bytes are there in the word 'test'?

- A** 2
- B** 4
- C** 6
- D** 8

(1)

How many bits are there in the word 'test'?

- A** 8
- B** 12
- C** 20
- D** 32

(1)

Numbers and letters are all measures using bits and bytes?

- A** TRUE
- B** FALSE

(1)

YEAR 7

LO: To know difference between kilobytes and megabytes – how many kilobytes in a megabyte etc.

How many bytes make 1 KB?

- A** 1010
 - B** 1121
 - C** 1024
 - D** 1042
- (1)

How many KB make 1MB?

- A** 1024
 - B** 0124
 - C** 1042
 - D** 4201
- (1)

How many MB make 1 GB?

- A** 2401
 - B** 1042
 - C** 2020
 - D** 1024
- (1)

How many GB make 1 TB?

- A** 1042
 - B** 2410
 - C** 2424
 - D** 1024
- (1)

How many bits in a byte?

- A** 8
 - B** 12
 - C** 20
 - D** 32
- (1)

YEAR 7

ANSWER: A

Unit 2: Think like a computer scientist

LO: To know the difference between decomposition and algorithms with suitable examples

Breaking down a complicated problem into smaller problems is known as what?

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.....

(1)

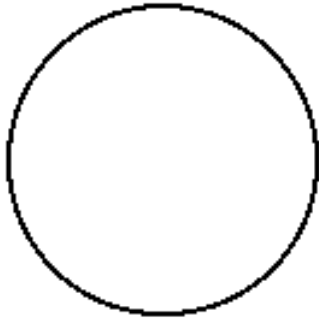
Think like a computer scientist, explain the term algorithm.

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(1)

Unit 3: Drawing and manipulating shapes

Label the following shapes and using the worksheet provided, write down the algorithms to create the shapes (MSW LOGO)



(2)

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(2)

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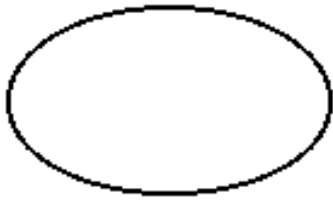
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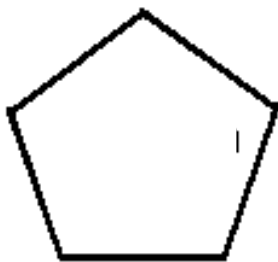
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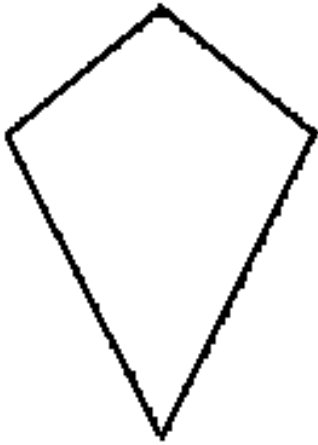
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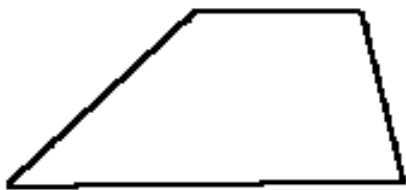
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(2)

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YEAR 7

1. What is the best description of decomposition?
 - a. Breaking a problem down into smaller problems
 - b. Breaking a problem down into smaller problems to solve them
 - c. Breaking a solution down into smaller problems
 - d. Breaking a problem down into smaller problems to make it easier to solve them

2.

Which answer is NOT an example of data collection?

- a) Ask 30 people what their favourite food is
- b) Circle all the shopping malls that are in Ar-Rayan
- c) Do more people like Apple or Android?
- d) How many people like apple in our class?

3.

Which sentence refers to algorithm?

- a) If I follow the steps I will solve the problem
- b) If I break down the problem it will become easier
- c) If I collect the data I can see a pattern
- d) If I see a pattern I can see the cause

YEAR 7

2. What is a model?
 - a. Something to imitate an unreal situation
 - b. Something to imitate a real life situation
 - c. Something to change a real life situation
 - d. Something to make a real life situation better

3. Why are models helpful in making an algorithm?
 - a. They help identify data and test hypothesis
 - b. They help identify data and test results
 - c. They help identify patterns and test hypothesis
 - d. They help delete patterns and test hypothesis

4. How can I make a square without using more than 1 instructions
 - a. Use the save function
 - b. Use the repeat instruction
 - c. Use the left instruction
 - d. Use the cs function

5. Which algorithm creates a triangle?

FD 100	FD 100	FD 100	FD 100
RT 120	RT 90	RT 120	RT 90
FD 100	FD 100	FD 100	FD 100
RT 120	RT 90	RT 120	RT 90
FD 100	FD 100	FD 100	FD 100
RT 120	RT 90	RT 120	FD 100
FD 100	FD 100		
RT 120	RT 90	C	D
A	B		

YEAR 7

Select all of the devices below that are inputs.

- a. Webcam
- b. Printer
- c. Monitor
- d. Keyboard

Is a mouse, an input or an output?

- a. Input
- b. Output
- c. Both

Select the device(s) that is an output.

- a. Mouse
- b. Printer
- c. Scanner
- d. Webcam

What is the name of the number system, which only uses 1's and 0's?

- a. Binary
- b. Denary

What is the name of the number system, which only use the numbers 0-9?

- a. Denary
- b. Binary

Convert the number 11001101 to denary

128	64	32	16	8	4	2	1

Denary for 11001101 =

What is an algorithm?

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Give three examples of algorithms that you come across every day.

1.
2.
3.

What is the CPU?

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What is a storage device?

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How many bits in a byte?

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