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C.W Thursday, August 20, 2026

Task 1: Network Knowledge Check-up

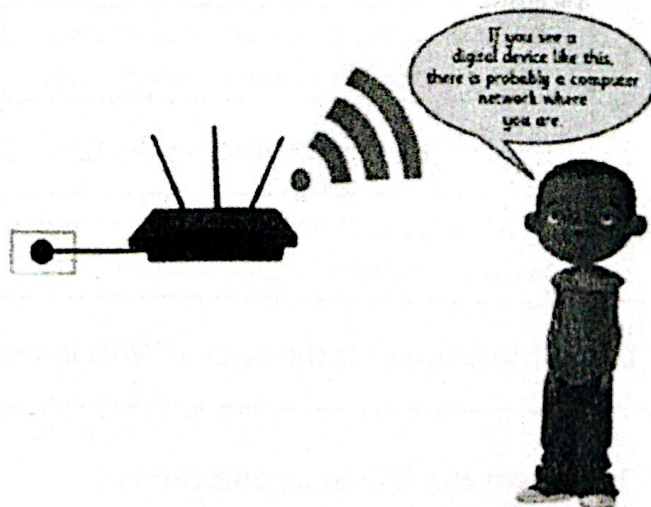
A. Circle the correct answer from the options given in each question.

1. What is a network? a) A single computer b) Group of connected computers c) A program d) A database	2. Which of the following is a type of network? a) RAM b) ROM c) LAN d) CPU
3. What does LAN stand for? a) Local Area Network b) Large Access Node c) Line Access Network d) Logical Application Network	4. Which network covers a large area? a) LAN b) WAN c) PAN d) USB
5. What is the internet? a) A document b) A group of emails c) A global network d) A printer	6. What device connects computers in a network? a) Printer b) Router c) Mouse d) Monitor
7. Which type of network connects computers in one room? a) LAN b) WAN c) SAN d) MAN	8. What allows us to send emails? a) Internet b) Keyboard c) Printer d) Scanner
9. What does a router do? a) Types words b) Shows pictures c) Connects networks d) Stores data	10. WAN stands for: a) World Access Node b) Wireless Access Network c) Wide Area Network d) Web Application Network

C.W Thursday, August 20, 2026

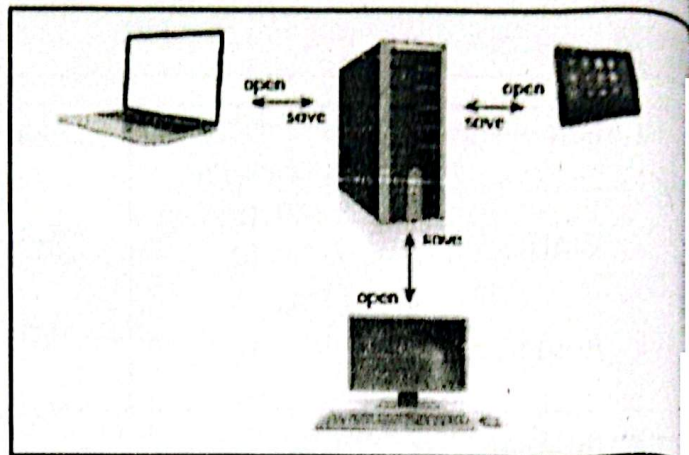
B. Match the terms in Column A with their description in Column B

Column A	Column B
1. LAN	Local Area Network ✓
2. WAN	Global Network ✓
3. Router	Wide Area Network ✓
4. Internet	Connects devices to the Internet ✓
5. Wi-Fi	Computers that are connected to each other ✓
6. Computer Network	Computer Viruses can spread ✓
7. Wi-Fi Access Point	Wireless connection ✓
8. Disadvantage of Networks	School computer lab ✓
9. Example of LAN	Non-portable ✓
10. Wired Network Disadvantage	A device that sends and receives wireless signals ✓



(H.W) Thursday, August 27, 2026
Task 2: Identify and Underline

A. Mark the statements as TRUE or FALSE. Identify and underline the mistake if the statement is wrong.



No	Statement	True/ False
1	A network is a group of connected computers.	True ✓
2	WAN covers a <u>smaller</u> area than LAN.	False ✓
3	The Internet is a <u>private</u> network.	False ✓
4	LAN can only be used in a single room.	True ✓
5	A router helps devices connect to the internet.	True ✓
6	Sharing files and printers is a <u>disadvantage</u> of a network.	False ✓
7	In a network, if one computer gets a virus, other computers will always remain <u>safe</u> .	False ✓
8	Wi-Fi is a type of <u>wired</u> connection.	False ✓
9	Wi-Fi Access Point is a device that sends and receives wireless signals.	True ✓
10	The Internet is the biggest WAN in the world.	True ✓

B. Answer the following questions:

H.W. Friday, August 21, 2026

1. What is a computer network?

A computer network is when two or computers are together so they can share information like messages, pictures or files.

2. Define LAN and WAN with one example of each.

LAN	WAN
The computers in your school that are connected together to share internet	The internet - it's the biggest WAN in the world.

3. Explain how you use the internet in daily life. Give at least two examples.

I use internet by calling someone on the phone.

I use internet by watching videos.

4. Identify the advantages of a computer network from the following options. Tick (✓) all that apply.

- ☒ Sharing files and printers
- ☐ Viruses can spread
- ☒ Working together on projects
- ☐ Needs internet or cables
- ☒ Saving time
- ☐ Can be slow with many users

C.W Thursday, August 27, 2026

Task 3: De-cipher what you know

A. Circle the correct answer.

1. What is a cipher? a) A type of food b) A secret code c) A computer d) A printer	2. Why are ciphers used? a) To break systems b) To play games c) To keep messages secret d) To share public info
3. Which cipher shifts letters by a fixed number? a) Morse code b) Caesar cipher c) Binary code d) QR code	4. Which tool helps decode ciphers? a) Printer b) Decoder ring c) Mouse d) Monitor
5. What is encryption? a) Making a phone call b) Scrambling data to keep it safe c) Playing videos d) Sending emails	6. What is decryption? a) Watching movies b) Unlocking messages c) Printing text d) Making calls
7. In Caesar cipher, how is a letter changed? a) Reversed b) Removed c) Shifted by positions d) Doubled	8. What is the key in a cipher? a) The font b) The shift rule or key c) The title d) The sound
9. Why are ciphers used online? a) To entertain b) To store files c) For secure communication d) To crash a website	10. Which device below may use a cipher? a) Toaster b) Smart watch c) Book d) Mirror

C.W. Thursday August 27, 2024

B. Match the terms in Column A with their corresponding description in Column B

Column A	Column B
1. Cipher	Sharing information with others
2. Caesar Cipher	The answer that unlocks the code
3. Encryption	Important information kept safe
4. Decryption	Solving the secret writing
5. Key	A code that shifts letters over
6. Online messages	A tool that solves secret writing
7. Secure info	Hiding a message in secret writing
8. Secret text	A secret code
9. Decoder	Notes sent on the internet
10. Communication	Words written in code

C.W Thursday, August 27, 2023

Task 4: Decipher the Cipher

A. The following is a Cipher made by replacing the Alphabet with Numbers:

KEY:

A	B	C	D	E	F	G	H	I	J
1	2	3	4	5	6	7	8	9	10
K	L	M	N	O	P	Q	R	S	T
11	12	13	14	15	16	17	18	19	20
U	V	W	X	Y	Z				
21	22	23	24	25	26				

The Cipher Text (Encrypted Text) is as follows:

9 20	9 19	19 15	13 21 3 8	6 21 14
20 15	13 1 11 5	3 9 16 8 5 18 19		

Decode the cipher text using the above key, writing the decoded answer in the box given below:

It	is	so	much	fun
to	make	ciphers		

CW Thursday, August 27, 2026

B. Use Google search to find out whether the following statements are **true** or **false**. Some of them you may already know, but some need to be found out.

No	Statement	True/ False
1	A cipher is a type of message.	True ✓
2	Caesar cipher shifts characters to make a code.	True ✓
3	Encryption protects data.	True ✓
4	You <u>cannot</u> decode a cipher.	False ✓
5	Secret codes help keep information safe.	True ✓
6	A key is <u>not</u> important in a cipher.	False ✓
7	Decryption makes messages <u>unreadable</u> .	False ✓
8	Ciphers are used in digital communication.	True ✓
9	Ciphers are used to make information public.	False ✓
10	The Caesar Cipher is named after Julius Caesar.	True ✓

Did you know?

The **Caesar Cipher** is named after the Roman Emperor Julius Caesar. He used to send secret messages to his military leaders. He used a shift of three letter so 'A' became 'D'.



C.W. Thursday, August 27, 2026

Ciphers are used to keep digital information secret.

C. Answer the following questions:

1. What is a cipher and what is it used for?

Cipher is a type of algorithm that helps to change a message into a secret code so that others cannot read unless they know the key.

2. Give two examples of places where Ciphers are used.

a. online banking

b. messaging app

3. Choose three reasons which show why Ciphers are important in digital communication.

- ☒ Ciphers keep personal messages secret so only the right people can read them.
- ☐ Ciphers help computers work faster by skipping long calculations.
- ☒ Ciphers protect important information like passwords and bank details.
- ☐ Ciphers make every website look more colorful.
- ☒ Ciphers help stop hackers from stealing data.

4. From the following scenarios, identify which ones would need a cipher and which ones would not

Scenario	Cipher Needed/ Not Needed
1. Mia plays an online game that stores her password to log in securely. No one must be able to guess that password.	Needed
2. Ben is baking cookies and follows a recipe written in a notebook.	Not Needed
3. Sam is drawing a poster for a school project using crayons and paper.	Not Needed
4. A doctor sends a patient's confidential medical report to another hospital using email.	Needed

CIN C.W. Thursday, September 3, 2026

Task 5: Hands on Activity – Topics: 3.1 & 3.2

1. In the Caesar Cipher, if A becomes D, how many letters have been shifted forward? Circle the correct answer:

- a) 1 letter
- b) 2 letters
- c) 3 letters**
- d) 4 letters

2. If the Caesar Cipher shift letters forward by 1, what does 'B' mean when used in the cipher?

If B is in the secret message and the shift is 1, then the real letter is A.

3. Write the +3 Cipher for the alphabets given in the table below:

Alphabets	A	B	C	D	E	F	G	H	I
Cipher Key	D	E	F	G	H	I	J	K	L
Alphabets	J	K	L	M	N	O	P	Q	R
Cipher Key	M	N	O	P	Q	R	S	T	U
Alphabets	S	T	U	V	W	X	Y	Z	
Cipher Key	V	W	X	Y	Z	A	B	C	

Encrypt the message "HOW ARE YOU?" using the above Cipher.

KRZ DOH BRX

C.W 3-9 Thursday, September 3, 2026

Task 1: Revise What You Know – Topics 1.1 & 1.2

A. Circle the correct answer from the given options in each question:

1. What is an algorithm? a) A robot <u>b) A step-by-step process</u> c) A device d) A program	2. Which of these is an example of input? a) Monitor <u>b) Keyboard</u> c) Printer d) Speaker
3. Which is an output device? a) Scanner b) Microphone <u>c) Monitor</u> d) Keyboard	4. What does an input device do? a) Store data b) Display output <u>c) Send data to the computer</u> d) Print
5. A recipe is an example of a/an a) game <u>b) algorithm</u> c) output d) code	6. What is the data which is entered into a computer called? a) Output b) Process <u>c) Input</u> d) Storage
7. An algorithm helps to <u>solve problems</u> a) <u>Solve problems</u> b) Draw pictures c) Make videos d) Edit music	8. What is a common feature of output devices? a) They store data <u>b) They show results</u> c) They receive data d) They control input
9. A mouse is used to <u>Input data</u> a) Display output <u>b) Input data</u> c) Print pages d) Speak	10. Algorithms are useful because: a) They are games <u>b) They give steps to solve a problem</u> c) They input data d) They are drawings

C.W Thursday, September 3, 2026

Task 2: Match, Correct & Answer

A. Match the terms in the Column A with their corresponding description in Column B.

Column A	Column B
1. Algorithm	Controls cursor ✓
2. Monitor	Making changes ✓
3. Mouse	Step-by-step solution ✓
4. Editing	Printer ✓
5. Speaker	Output ✓
6. Entering Text Input	Touch Screen ✓
7. Output Device's job	Keyboard ✓
8. Recipe for cake	Sound output ✓
9. Example of input device	Example of Algorithm ✓
10. Example of output device	To show results ✓



For example, if you want to write a recipe for baking a cake, you need to think about:

- what ingredients to use
- what equipment to use
- what temperature the oven needs to be
- what instructions need to be followed
- what order the instructions are given in.

CW Thursday, September 13, 2026

B. Mark the statements as True or False. Identify and underline the mistake if statement is wrong and write the correct answer below the marked word.

No	Statement	True/ False
1	An algorithm is a type of <u>game</u> . algorithm	False ✓
2	A keyboard is an <u>output</u> device. input	False ✓
3	A monitor shows the output.	True ✓
4	A speaker is an <u>input</u> device. output	False ✓
5	An output could be an image shown on screen or sound heard through a speaker.	True ✓
6	A keyboard has buttons and can scroll up and down using the scroll wheel.	True ✓
7	A monitor consists of <u>keys</u> and <u>buttons</u> only. screen	False ✓
8	We use <u>speakers</u> to record our voice. microphone	False ✓
10	Input devices help enter data.	True ✓
11	A printer is an <u>input</u> device. output	False ✓
12	Algorithms make solving tasks easier.	True ✓
13	A mouse is not an <u>input</u> device. output	False ✓

C.W Thursday, September 3, 2026



C. Answer the following questions.

1. (a) What is an algorithm?

An algorithm is a step by step instructions to solve problems.

(b) Give an example where you followed an algorithm in your daily life.

When I brush my teeth I use algorithm.

First I pick the brush. Apply tooth paste @ clean teeth @
rinse my mouth.

2. Give two examples of input and two examples of output devices.

Input Devices	Output Devices
a. Keyboard	a. Speaker
b. Mouse	b. Monitor

3. Why is input important in a computer system? Tick (✓) the correct answer.

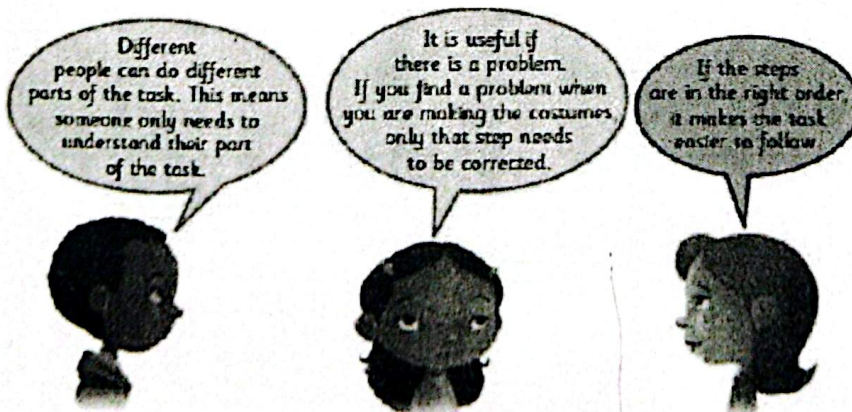
- ☐ It helps the computer only to make sounds.
- ☒ It helps us give data and instructions to the computer.
- ☐ It is used only to switch the computer on and off.

For 48/9/26

C.W Thursday September 16, 2026

B. Match the terms in Column A with their correct descriptions in Column B

Column A	Column B
1. Sprite	Area where the sprite performs its actions
2. Stage	Moves the Sprite
3. Motion block	Appearance of the Sprite
4. Looks block	Changes the appearance
5. Say block	Visual Programming tool
6. Green flag	Set of blocks
7. Costume	Character in a program
8. Scratch	Displays messages
9. Script	Rotates the Sprite
10. Turn block	Starts a program

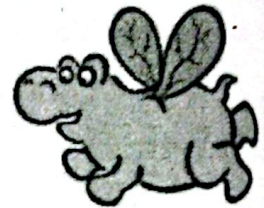


C.W Thursday, September 10, 2026

Task 4: Complete the Paragraph

A. Fill in the following paragraph with the correct words from the given box. Each word in the box must be used only once.

Jump	green	costumes	stage	projects
block	motion	scripts	one	text



Scratch is a software used to create projects and animations. Sprites can be moved using motion blocks. The Say block makes sprites show text on the screen. Costumes change how a sprite looks. The stage is where sprites perform actions and the program runs. You can start the program with the green flag. Sprites can have more than one costume. The motion block can make a sprite perform actions like jump. Blocks are used to build coding scripts. Scratch uses block-based programming. ✓

You can use the colour of the block to work out which menu it is in. The 'change costume' block is purple. It can be found in the 'Looks' menu.



C.W Thursday, September 10, 2024

Task 3: Check Your Scratch Fundamentals – Topic 1.3 & 1.4

A. Circle the correct answer from the options given in each question.

2. What is Scratch? a) A game b) A text editor c) A visual programming tool d) A calculator	3. What is a sprite in Scratch? a) A background b) A character or object c) A command d) A font style
4. Which tab allows adding blocks to control sprite actions? a) Motion b) Music c) Video d) Paint	5. What block makes a sprite move 10 steps? a) Say Hello b) Move 10 Steps c) Turn 15 Degrees d) Wait
6. What is used to change how a sprite looks? a) Code tab b) Looks block c) Motion block d) Sound block	7. Which flag starts the program in Scratch? a) Red flag b) Blue arrow c) Green flag d) None
8. What does the 'say Hello' block do? a) Makes a sprite jump b) Displays text on screen c) Changes color d) Adds music	9. What is the stage in Scratch? a) The control panel b) Area where sprites perform c) A sound player d) A code editor
10. Where do you add costumes for a sprite? a) Script tab b) Stage tab c) Costume tab d) Music tab	11. What is the purpose of blocks in Scratch? a) Playing games b) Visual programming commands c) Drawing d) Saving files

C.W Thursday, September 10, 2026

B. Answer the following questions:

1. What is Scratch used for? From the following options tick (✓) all that apply:

- ☒ To create stories, games, and text documents ✓
- ☐ To browse the internet
- ☒ To create animations and interactive projects ✓

2. From the following 5 sentences tick (✓) the two sentences that are correct about sprites:

- ☒ Sprites can be programmed to move, talk, and interact with other sprites. ✓
- ☐ Sprites are only used to store music files.
- ☒ A sprite can change its look using different costumes. ✓
- ☒ Sprites are only visible when the computer is turned off.
- ☐ Sprites are used to print documents in Scratch.

3. What is the purpose of the 'motion' block? Circle the two correct answers from the ones given below?

Changes the color of the sprite

Moves the sprite in different directions ✓

Rotates the sprite left or right ✓

Changes the color of the sprite

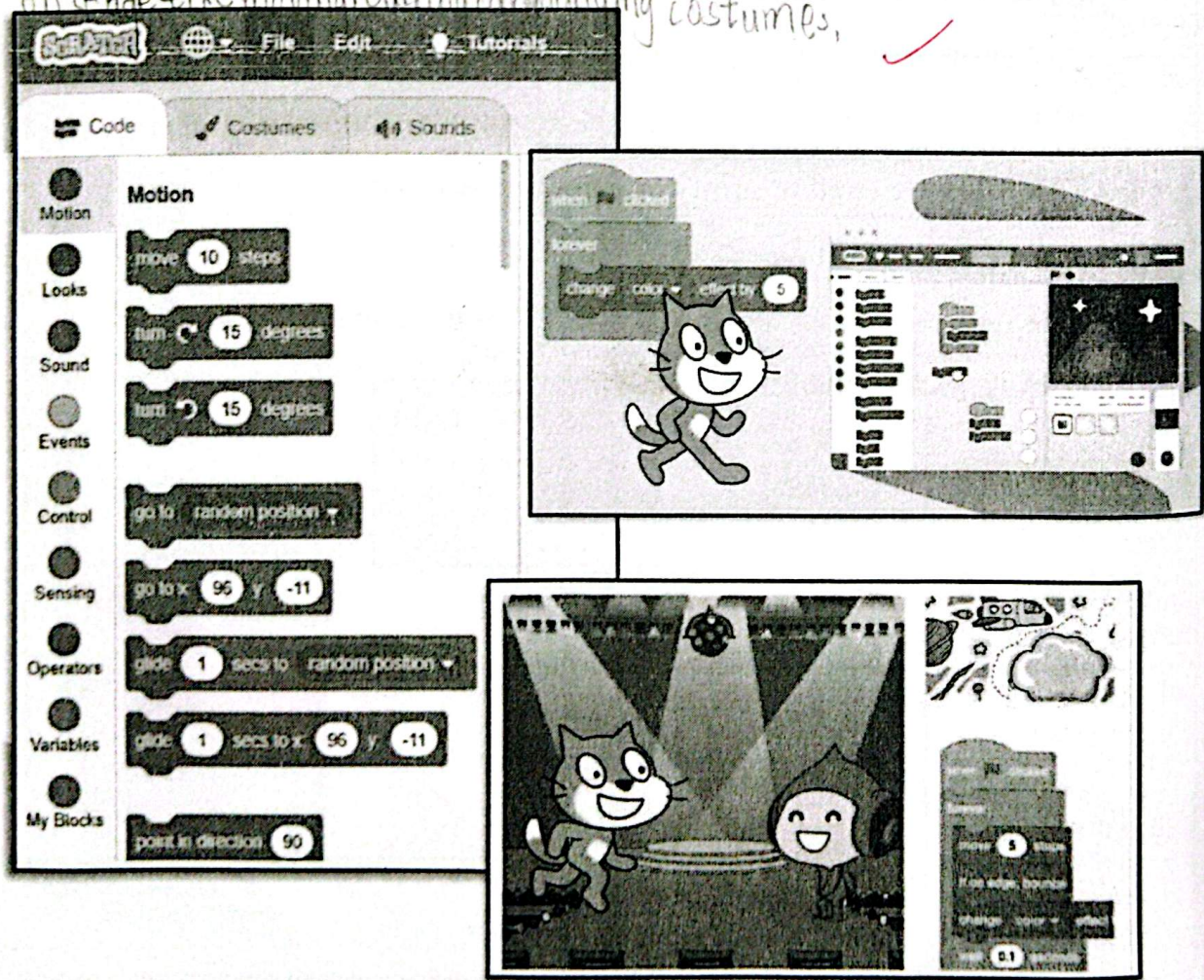
L.W Thursday, September 10, 2026

4. How do you change a sprite's appearance? Put a cross (x) on the statement from the following which is incorrect.

- ☐ You can change a sprite's appearance by switching its costume.
- ☐ You can use the "looks" blocks to make a sprite change color or size.
- ☐ Costumes can be edited in the costume editor to change how the sprite looks.
- ☒ A sprite's appearance can only change if you delete it and add a new one.

5. What happens in Scratch when the green flag is clicked?

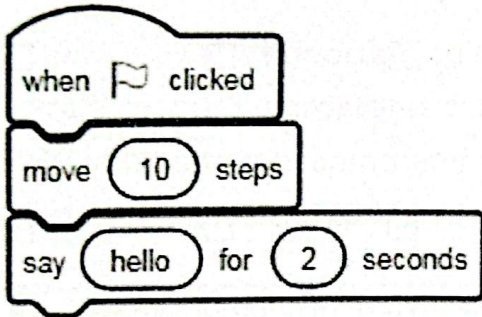
The program starts. The sprite follows the blocks in order and performs actions like moving, talking and changing costumes.



C.W. 10-7-26 Thursday, September 16, 2026

Task 5: Understand the Code

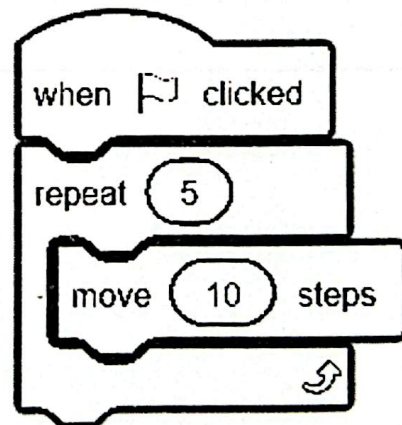
1. Look at this Scratch code



What will the sprite do? Circle the correct option.

- a. The sprite will repeat the movement 5 times
- b. The sprite will only move continuously without stopping
- c. The sprite will say "hello" first and then move 10 steps
- d. The sprite will move 10 steps and then say "hello" for 2 seconds
- e. The sprite will do nothing unless clicked twice

2. Look at this Scratch code



What will the sprite do? Circle the correct option.

- a. The sprite will move 10 steps only once
- b. The sprite will move 10 steps a total of 5 times
- c. The sprite will say "hello" 5 times
- d. The sprite will move 50 steps in a single jump
- e. The sprite will stop immediately after starting



For 16/9/26