

DOYEN PUBLISHERS

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

TERM 1 2025 MID-TERM EXAM

GRADE 9

PRE-TECHNICAL STUDIES



Time: 1 hour 30 mins

NAME: _____

SCHOOL: _____

STREAM: _____ DATE: _____

INSTRUCTIONS

- Write your name, school, stream and date in the spaces provided above.
- This paper consists of two sections: A and B.
- Section A comprises Multiple Choice Questions numbered 1 to 40.
- Section B comprises short, structured questions number 41 to 50.
- Answer ALL the questions in section A in the table provided below.
- Answer ALL the questions in section B in the spaces provided in this QUESTION PAPER.
- Do NOT remove any page from this question paper. Answer ALL the questions in English

ANSWER SHEET – SECTION A

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.	31.	32.	33.	34.	35.	36.	37.	38.	39.	40.

LEARNER'S SCORE

SCORES		TOTAL
A (Out of 30)		
B (Out of 40)		

This paper consists of 8 printed pages. Candidates should check the question paper to confirm that all pages are printed as indicated and that no questions are missing.

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SECTION 1: (30 marks)

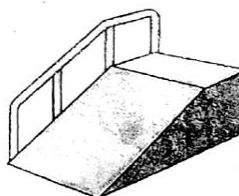
1. A Grade 9 learner listed components of Pre-Technical Studies as shown below. Identify the odd one out.
A. Technical Studies
B. Business Studies
C. Religious Studies
D. Computer Studies
2. Hellen listed critical thinking and problem-solving as one of the seven key competencies. How can learners develop critical thinking and problem-solving skills in Pre-Technical Studies?
A. By memorizing facts and figures
B. By following instructions without question
C. By brainstorming ideas and solutions to problems
D. By avoiding group work and independent study
3. Tiffany was gifted the digital device shown below. Study and choose its name from the choices given below.



- A. Laptop
- B. Tablet
- C. Mouse
- D. Desktop

4. Mutiso outlined different online threats faced by digital devices globally as shown below. Identify the odd one out.
A. Cyberbullying
B. Impersonation
C. Catfishing
D. Hardware failure
5. Safety when browsing the internet is a key value. How can learners protect themselves from online threats?
A. Sharing personal information with strangers
B. Ignoring warnings about phishing scams
C. Using strong passwords and avoiding public Wi-Fi
D. Clicking on suspicious links in emails

6. Upon being asked to outline the characteristics of a computer, Kimutai gave the list shown below. Identify the odd one out.
A. Accuracy
B. Versatility
C. Speed
D. Data science
7. Mr. Marathi is encouraging Grade 9 learners to practice free-hand sketching. Which of the following is NOT a benefit of free-hand sketching?
A. Improves communication skills
B. Develops creativity and imagination
C. Enhances hand-eye coordination
D. Requires expensive equipment
8. Computer hardware has many categories. Identify which one is NOT a category of computer hardware.
A. Keying device
B. Software devices
C. Pointing devices
D. Scanning devices
9. Grade 9 learners were classifying materials. Identify which of the following materials is NOT a metallic material.
A. Ceramic
B. Bronze
C. Copper
D. Iron
10. Mwango was studying non-metallic materials. Which of the following is a quality of a non-metallic material?
A. Conducts electricity
B. Good thermal conductor
C. A good insulator
D. Is magnetic
11. Study the diagram below and name the raised platform being shown.



- A. Trestle
- B. Ladder
- C. Stand
- D. Ramp

12. The following are cutting tools that are used in gardening. Identify the tool that is not a cutting tool.

- A. Spade
- B. Pruning shears
- C. Secateurs
- D. Clippers

13. The following diagram was shown to Grade 9 learners when they were studying hazardous substances.



Identify what the symbol means.

- A. Corrosive
- B. Flammable
- C. Poisonous
- D. Corrosive

14. Study the following tool and name the category it falls under.

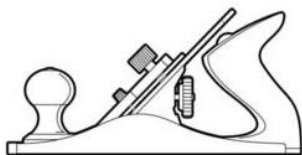


- A. Measuring tool
- B. Punching tool
- C. Smoothing tool
- D. Marking tool

15. Adoyo is an entrepreneur from Kanga village. He has the qualities of a good entrepreneur. Which of the following is NOT a quality of a good entrepreneur?

- A. Risk taker
- B. Creative and innovative
- C. Poor communicator
- D. Good planner

16. The tool below is known as:

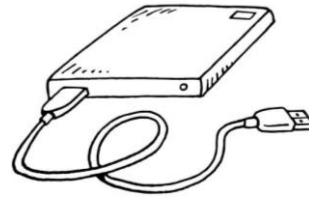


- A. Hack saw
- B. Rake
- C. Plane
- D. Stripper

17. Kiarie finished his university studies and wanted to start a business. Identify which of the following is NOT a source he can use to get business ideas.

- A. Hobbies
- B. Church
- C. Market gap
- D. Interest

18. Identify the category in which the following computer hardware falls under:



- A. Keying device
- B. Pointing device
- C. Scanning device
- D. Storage device

19. Moraa and her friends were learning about raised platforms. Which one among the following is NOT an example of a raised platform?

- A. Computer
- B. Ramps
- C. Ladder
- D. Work benches

20. Sabina wanted to construct a cyber-café. Which of the following are important factors to consider when setting up a cyber-café?

- A. Location, target market, and internet speed
- B. Personal hobbies, the number of employees, and personal interest in gaming
- C. The color of the walls, type of furniture, and choice of food served
- D. Weather conditions, bank holidays, and employee attire

21. Which of the following is a key difference between metallic and non-metallic materials?

- A. Metallic materials are good conductors of heat and electricity, while non-metallic materials are usually poor conductors.
- B. Non-metallic materials are generally stronger than metallic materials and more durable.
- C. Metallic materials are typically transparent, while non-metallic materials are opaque.
- D. Non-metallic materials can be easily magnetized, while metallic materials cannot.

22. Chelagat was writing her notes about computer hardware. Identify one that is not an example of computer hardware.

- A. Printer
- B. Monitor
- C. Mouse
- D. Spreadsheet

23. Identify which of the following is not a line that is used in drawing in Pre-Technical Studies.

- A. Thick continuous line
- B. Thin continuous line
- C. Drawing line
- D. Dashed line

24. State the meaning of the following abbreviation: DRG

- A. Across flat
- B. Drawing
- C. Center line
- D. Diameter

25. Oduko wanted to buy a computer for his school. Identify the factor that he is not going to consider while buying the computer.

- A. Colour of the computer
- B. Speed of the computer
- C. Accuracy of the computer
- D. Storage of the computer

26. Which of the following is a component of Pre-Technical Studies?

- A. Agriculture
- B. Business Studies
- C. Creative Arts and Sports
- D. Science and Technology

27. What does the symbol shown below represent in technical drawing?



- A. Radius
- B. Perpendicularity
- C. Diameter
- D. Square

28. What is the tool shown below known as?



- A. Ammeter
- B. Voltmeter
- C. Stopwatch
- D. Beam balance

29. A group of Grade 9 learners were listing cutting tools in class. Makamu named a wrong tool. Which among the following did he name?

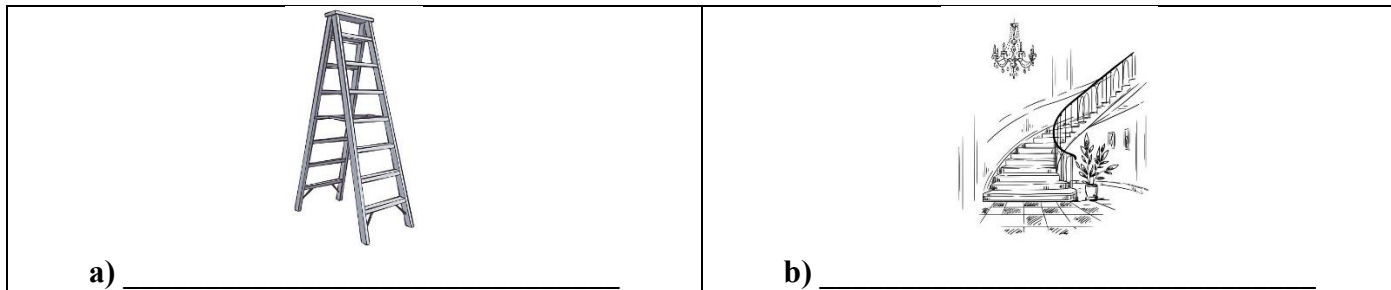
- A. Chisel
- B. Axe
- C. Pruning shears
- D. Rake

30. Okil, a Grade 9 learner, was given the following terminologies that are used in visual programming. Identify the terminology that is not used in visual programming.

- A. Syntax
- B. Variables
- C. Bolding
- D. Coding

SECTION B (40 Marks)

31. The diagram below shows examples of raised platforms. Name the platforms shown below. (2 marks)

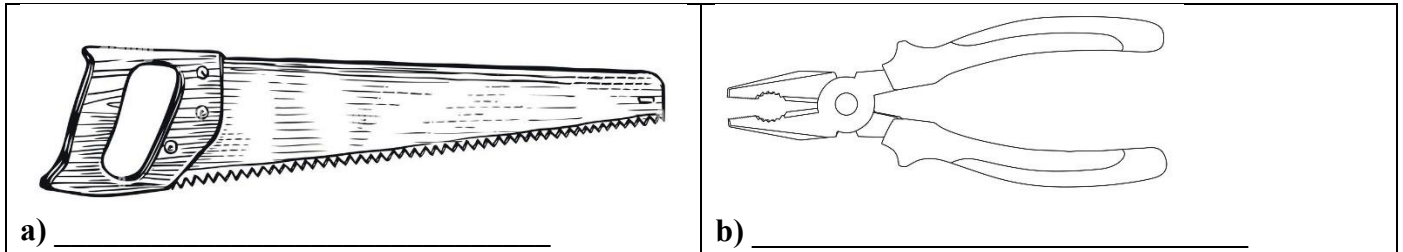


32. Kilimo wanted to clean his rooftop, so he used a raised platform. State **two** safety measures he should observe when using a raised platform. (2 marks)

33. A group of Grade 9 learners was tasked to research bookkeeping. State **two** importance of bookkeeping. (2 marks)

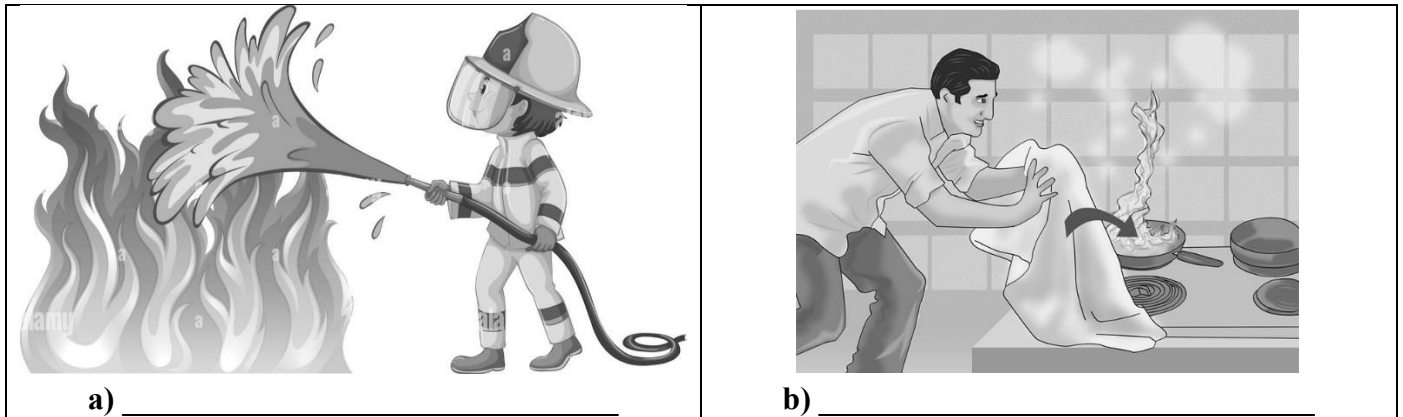
34. Wangari is a farmer and wanted to look for a market for her eggs. State **two** factors to consider when looking for a market. (2 marks)

35. Study the diagrams below and name the cutting tools shown. (2 marks)



36. State **two** techniques a cyber café owner can use to secure their data in the computer. (2 marks)

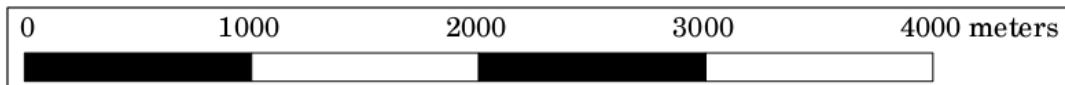
37. Study the following diagrams and identify the techniques used in firefighting. (2 marks)



38. State **two** instruments Mwikali can use during her drawing class in Pre-Technical Studies. (2 marks)

39. A group of Grade 9 learners was asked to name **two** forms of dimensioning that are used in drawing. State the two forms. (2 marks)

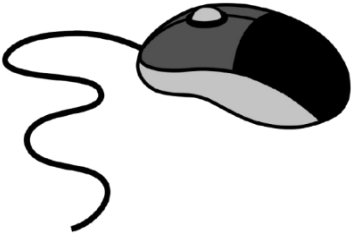
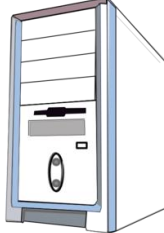
40. Study the diagram below and name the scale being shown and **one** of its features. (2 marks)



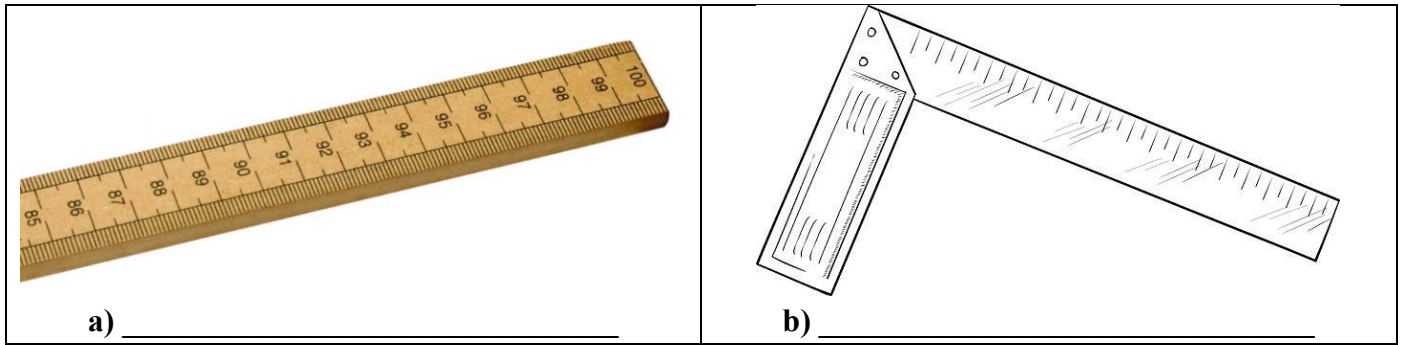
41. State **two** risks that can be associated with working on raised platforms. (2 marks)

42. A group of Grade 9 learners was learning about raised platforms. State **two** importance of observing safety when working on raised platforms they might have learned. (2 marks)

43. Murugi and his friends visited the school computer lab and saw the following computer hardware. Name the hardware they saw. (2 marks)

 a) _____	 b) _____
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44. Identify the following tools used by a carpenter during marking and measuring. (2 marks)

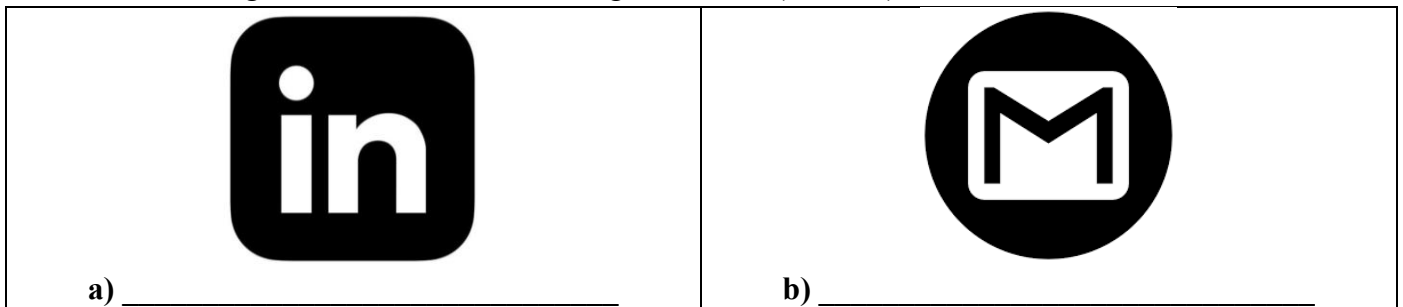


45. Use the following table to classify whether the following materials are metallic or non-metallic. (2 marks)

Material	Classification
Ceramic	
Steel	

46. A Grade 9 learner was studying free-hand sketching. State **two** principles of free-hand sketching they might have learned about. (2 marks)

47. Name the following ICT tools shown in the diagram below. (2 marks)



48. Define the following terms:

a) Entrepreneur

b) Entrepreneurship

49. Murunga wanted to make a posho mill. State **two** factors he will consider when looking for the location to construct the posho mill. (2 marks)

50. State **two** importance of setting financial goals. (2 marks)

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