

HESI A2 Foundation Worksheet

8 original questions, working space and separate answer explanations. Version 2026-10-28.

Scope

Twelve actual guide units, not a complete course or 200-question bank. School-selected sections, timers, calculator rules, cut scores and admission criteria remain institution-specific. Not HESI Exit, NCLEX, clinical practice, dosing advice, secure-item recall or a pass/admission prediction. Qualified educator review pending..

This is an untimed foundation study sample, not an official examination or complete mock test. Author-reviewed learning materials; independent educator review and learner calibration remain pending.

How to use this worksheet

Work through the questions before opening the answer section. Write your calculation or the reason for your choice. After checking the explanation, return to the linked lesson for any unfamiliar distinction.

<https://openexam.site/exams/hesi-a2/worksheets/>

QUESTION 1 / Set your scope, then identify the main idea

Original passage: A seed archive once listed each collection under a familiar plant name. Staff found that a familiar name could refer to different plants in different regions. The new catalog links that name to a checked specimen and a collection record. Entries with uncertain identities are marked for further review. Visitor displays keep familiar names alongside verified identifiers, so visitors can still recognize the labels they know. The archive has not changed its storage capacity. Which statement best expresses the main idea?

- A. The archive replaces specimen checking with a simpler system of familiar names.
- B. The archive increases storage space before accepting more seed collections.
- C. The archive improves identity tracking while preserving usable familiar labels.
- D. The archive treats unresolved labels as evidence that the collections have failed.

Working / reasoning:

Item hesi-a2-pilot-q01 | Lesson: <https://openexam.site/exams/hesi-a2/learn/hesi-a2-unit-01/>

QUESTION 2 / Recover word meaning from its local context

An editor writes: "The specimen label is provisional. We will use it for now, but a second examination may require us to change it." In this sentence, provisional most nearly means:

- A. Temporary
- B. Permanent
- C. Unrelated
- D. Previous

Working / reasoning:

Item hesi-a2-pilot-q03 | Lesson: <https://openexam.site/exams/hesi-a2/learn/hesi-a2-unit-03/>

QUESTION 3 / Preserve grammatical form across a list

Choose the completion that makes all three listed actions parallel: "The volunteers agreed to label packets, to weigh samples, and _____."

- A. records arrivals
- B. a record of arrivals
- C. to record arrivals
- D. recording arrivals

Working / reasoning:

Item hesi-a2-pilot-q04 | Lesson: <https://openexam.site/exams/hesi-a2/learn/hesi-a2-unit-04/>

QUESTION 4 / Track which quantity a fraction acts on

A workshop has 72 unmounted prints. It sends one third of them to an exhibition. It then mounts three eighths of the prints that remain. How many prints are still unmounted at the workshop?

- A. 18 prints
- B. 30 prints
- C. 21 prints
- D. 45 prints

Working / reasoning:

Item hesi-a2-pilot-q05 | Lesson: <https://openexam.site/exams/hesi-a2/learn/hesi-a2-unit-05/>

QUESTION 5 / Separate proton identity,nuclear mass count and charge

A particle has 17 protons, 18 neutrons and 18 electrons. Which record gives its atomic number Z, mass number A and net charge?

- A. Z=17; A=35; charge=-1
- B. Z=18; A=35; charge=-1
- C. Z=17; A=36; charge=-1
- D. Z=17; A=35; charge=+1

Working / reasoning:

Item hesi-a2-pilot-q08 | Lesson: <https://openexam.site/exams/hesi-a2/learn/hesi-a2-unit-08/>

QUESTION 6 / Follow newly labeled cargo through a specified pathway

In a simplified eukaryotic-cell model, a newly labeled secreted protein follows rough ER→Golgi→secretory vesicle. Labeling starts after transport from the ER to the Golgi has been completely blocked. Protein synthesis continues, and no labeled protein was present before the block. Over the short observation interval, which pattern is consistent with this model?

- A. New label bypasses the ER and first appears inside outgoing secretory vesicles.
- B. New label appears in the ER but does not newly arrive in the Golgi.
- C. New label first appears in the Golgi, then moves backward into the ER.
- D. New label cannot appear in the ER because the Golgi makes this protein.

Working / reasoning:

Item hesi-a2-pilot-q10 | Lesson: <https://openexam.site/exams/hesi-a2/learn/hesi-a2-unit-10/>

QUESTION 7 / Keep anatomical directions attached to the subject

A paper human figure in anatomical position faces the observer directly, with no mirror or image reversal. A marker is on the figure's anatomical left forearm. In this frontal view, which description is correct?

- A. The marker appears on the observer's right and becomes anatomically right.
- B. The marker appears on the observer's left and becomes anatomically right.
- C. The marker appears on the observer's left and remains anatomically left.
- D. The marker appears on the observer's right and remains anatomically left.

Working / reasoning:

Item hesi-a2-pilot-q12 | Lesson: <https://openexam.site/exams/hesi-a2/learn/hesi-a2-unit-12/>

QUESTION 8 / Limit an inference to the evidence given

Original passage: A walking-route team logs only paths its members have visited that month. Every completed visit in the current log occurred in dry weather. A blank line means the team has not yet visited that path; it is not a closure notice. The log contains no rainy-weather observations. Which conclusion follows from this information?

- A. An unvisited path has worse conditions than every path with a completed entry.
- B. The dry-weather entries establish how those paths will perform during rain.
- C. Blank entries identify the paths that the team has closed to the public.
- D. The log does not establish the condition of an unvisited path.

Working / reasoning:

Item hesi-a2-pilot-q02 | Lesson: <https://openexam.site/exams/hesi-a2/learn/hesi-a2-unit-02/>

HESI A2: Answers & Explanations

Compare the method or rule as well as the final answer. These explanations are study aids, not official scoring guidance.

QUESTION 1 / hesi-a2-pilot-q01

Answer: The archive improves identity tracking while preserving usable familiar labels.

1. The linked specimens and records improve identity tracking, while the visitor labels retain familiar names. That statement explains both major strands. Storage expansion, reduced checking and a declaration of failure conflict with or exceed the passage.

QUESTION 2 / hesi-a2-pilot-q03

Answer: Temporary

1. "For now" and the possibility of revision identify a temporary status pending confirmation. The context supplies the meaning without requiring outside knowledge about the specimen.

QUESTION 3 / hesi-a2-pilot-q04

Answer: to record arrivals

1. The three actions share the infinitive pattern: to label, to weigh, to record. The grammatical relationship, rather than the subject matter, determines the matching completion.

QUESTION 4 / hesi-a2-pilot-q05

Answer: 30 prints

1. One third of 72 is 24, leaving 48 at the workshop. Three eighths of 48 is 18 newly mounted. The unmounted remainder is $48 - 18 = 30$ prints. The second fraction uses 48 as its base, not 72.

QUESTION 5 / hesi-a2-pilot-q08

Answer: $Z=17$; $A=35$; charge $=-1$

1. Z counts 17 protons. A counts the nucleus: $17 + 18 = 35$. Net charge in elementary-charge units is $17 - 18 = -1$. Changing electrons affects charge without changing the proton-defined element identity.

QUESTION 6 / hesi-a2-pilot-q10

Answer: New label appears in the ER but does not newly arrive in the Golgi.

1. The label is introduced only after the block, so there is no previously labeled Golgi pool. New synthesis can label the ER, but the stipulated block prevents that new cargo from reaching the Golgi. The inference concerns this model and interval, not every protein-trafficking route.

QUESTION 7 / hesi-a2-pilot-q12

Answer: The marker appears on the observer's right and remains anatomically left.

1. Anatomical left belongs to the subject. For an unreversed frontal view of a facing figure, that side appears on the observer's right. Changing the observer's viewpoint does not rename the subject's anatomical sides.

QUESTION 8 / hesi-a2-pilot-q02

Answer: The log does not establish the condition of an unvisited path.

1. A blank entry establishes that no monthly visit is recorded, not whether the path is good, bad or closed. The dry-weather scope also cannot be extended to rainy conditions. Keep the conclusion within the supplied observations.

References and scope notes

The questions and teaching explanations are original catalog materials. References support the selected concepts; they are not endorsements or a reproduced official examination bank.

LibreTexts—While Reading Strategies

https://human.libretexts.org/Bookshelves/Composition/Introductory_Composition/Rhetoric_-_What_Why_and_How/02%3A_Critical_Reading/2.02%3A_While_Reading_Strategies

LibreTexts—Inferences

[https://human.libretexts.org/Courses/College_of_the_Sequoias/Reading_and_Composition_\(Urban\)/04%3A_The_Reading-Writing_Connection/4.05%3A_Inferences](https://human.libretexts.org/Courses/College_of_the_Sequoias/Reading_and_Composition_(Urban)/04%3A_The_Reading-Writing_Connection/4.05%3A_Inferences)

Mills/LibreTexts—Parallelism

https://human.libretexts.org/Bookshelves/Composition/Advanced_Composition/How_Arguments_Work_-_A_Guide_to_Writing_and_Analyzing_Texts_in_College_%28Mills%29/13%3A_Correcting_Grammar_and_Punctuation/13.13%3A_Parallelism

Averill/LibreTexts—Isotopes and Atomic Masses

https://chem.libretexts.org/Bookshelves/General_Chemistry/Book%3A_General_Chemistry%3A_Principles_Patterns_and_Applications_%28Averill%29/01%3A_Introduction_to_Chemistry/1.07%3A_Isotopes_and_Atomic_Masses

Lumen/OpenStax legacy CC-BY edition—Endomembrane System and Proteins

<https://courses.lumenlearning.com/suny-osbiology2e/chapter/the-endomembrane-system-and-proteins/>

LibreTexts—Anatomical Position and Planes

https://bio.libretexts.org/Bookshelves/Human_Biology/Human_Anatomy_Lab/01%3A_Overview_and_the_Microscope/1.02%3A_Anatomical_Position_and_Planes

NROC/LibreTexts—Multiplying Fractions and Mixed Numbers

https://math.libretexts.org/Bookshelves/Applied_Mathematics/Developmental_Math_%28NROC%29/02%3A_Fractions_and_Mixed_Numbers/2.02%3A_Multiplying_and_Dividing_Fractions_and_Mixed_Numbers/2.2.01%3A_Multiplying_Fractions_and_Mixed_Numbers

Harper College/LibreTexts—Atomic Structure

https://chem.libretexts.org/Courses/Harper_College/General_Organic_and_Biochemistry_with_Problems_Case_Studies_and_Activities/04%3A_Chemical_Bonding/4.05%3A_Atomic_Structure

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