

Quiz Insights for Teaching

Student understanding, possible misconceptions, and a debriefing plan

13

Questions

30

Participants

2Questions indicating
possible misconceptions**4.0 out of 5**Participant feedback
30 responses

A question is flagged when at least two participants—and at least 10% of respondents—answer incorrectly with high confidence.

Your debriefing plan

Address possible misconceptions first: [Question 5](#) and [Question 6](#)

Revisit key concepts: [Question 8](#), [Question 10](#), [Question 11](#), [Question 12](#), [Question 4](#), and [Question 7](#)

Briefly reinforce correct answers: [Question 9](#) and [Question 3](#)

Recommended starting point: Question 5

Automatically prioritized based on indicators of possible misconceptions, correct-response rates, and answer confidence.

[→ Classification criteria](#)

QUIZ

Teaching Showcase: Live Team Demo

ENDED AT

9 Aug 2026, 16:19

REPORT LANGUAGE

English

SESSION CODE

ECYHEY

PARTICIPANTS

30

QUIZ CONTENT

English

Questions with the lowest correct-response rates

Empirical correct response rate: share of fully correct answers. A low rate can also come from unclear wording or a tight time limit.

[Question 5 — Which of these are strong use cases for a quick live check?](#) Correct-response rate: 10% (3 of 30 fully correct)

[Question 6 — How many externally visible cubies make up a classic 3×3 Rubik's Cube?](#) Correct-response rate: 10% (3 of 30 fully correct)

[Question 7 — Which creative-coding environment was this sketch written for?](#) Correct-response rate: about 27% (8 of 30 fully correct)

Participation across the quiz

Participation was stable: all 13 questions received 30 responses.

CONTENTS

[Debriefing plan ↗](#)[Questions with the lowest correct-response rates ↗](#)[Learner understanding and answer confidence ↗](#)[Question-by-question results 13 ↗](#)[Participant feedback ↗](#)[Team ranking ↗](#)[Bonus codes ↗](#)

Privacy: This report contains aggregated results only. Real names, IP addresses, and individual votes are not exported. Pseudonymous nicknames appear only with bonus codes.

Learner understanding and answer confidence

Correctness and self-rated confidence together show solid understanding, gaps, and possible misconceptions.

2 questions are recommended for debriefing. At least two participants—and at least 10% of respondents—answered incorrectly with high confidence. Individual cases are shown for information only.

How to read this section

Answer confidence (1–5): Low = 1–2 · Medium = 3 · High = 4–5

✓ Solid understanding · △ Possible misconception · ? Not yet secure · ○ Knowledge gap · M Medium confidence

Rounded share of all 270 responses with self-rated confidence (sums to 100%)



Self-rated confidence was collected for 9 of 13 questions, producing 270 responses.

9 questions × 30 participants = 270 self-rated confidence responses.

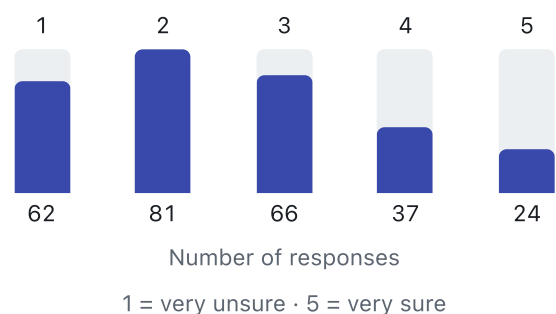
Answer confidence is not collected for Question 1 (Survey), Question 2 (Free text), or Question 13 (Rating).

Answer confidence was disabled for Question 7 in this quiz.

Diagnostic categories

✓ Solid understanding	13
△ Responses indicating a possible misconception	48
? Understanding not yet secure	69
○ Knowledge gap	74
M Medium confidence, correct	37
M Medium confidence, incorrect	29

Self-rated confidence distribution



[↑ Back to overview](#)

Question-by-question results

Question texts match what participants saw live (including images, formulas, and extra context).

QUESTION 1 OF 13

Survey

Round 1

Participants: 30

Voting results

How is the room feeling right now?



Answer distribution



Answer confidence is not collected for "Survey" questions.

NEXT QUESTION

QUESTION 2 OF 13

Free text

Round 1

Participants: 30

Voting results

What helps you learn?

Answer in **one word**. The responses will be displayed as a word cloud.

Free-text responses



Answer confidence is not collected for "Free text" questions.

NEXT QUESTION

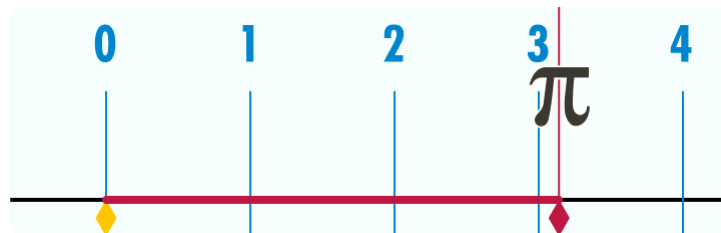
QUESTION 3 OF 13

Numerical estimate

Round 1

Participants: 30

Voting results

Round π to two decimal places.

Leonhard Euler:

$$e^{i\pi} + 1 = 0$$

Karl Weierstraß:

$$\pi = \int_{-\infty}^{\infty} \frac{dx}{1+x^2} = 2 \cdot \int_{-1}^1 \frac{dx}{1+x^2}$$

Answered correctly: 27 of 30 · 90%

Summary statistics

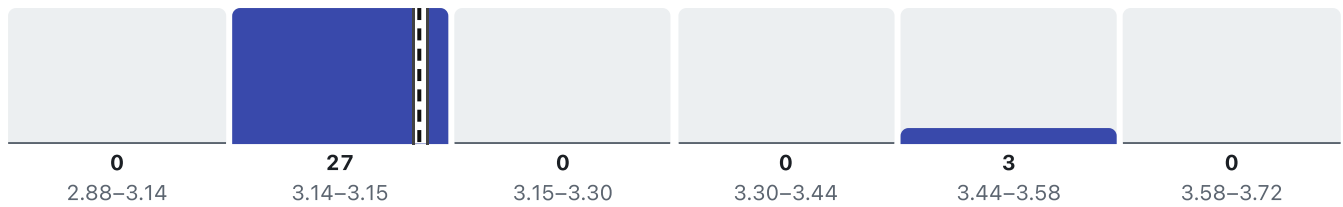
Responses: 30 · Mean: 3.18 · Median: 3.14 · Standard deviation: 0.11

27 of 30 responses were within the accepted range 3.14–3.15.

- At least half of the participants gave exactly 3.14.
- The average deviation from the reference value was 0.04.

Question 3 - continued: Round π to two decimal places.**Distribution of estimates**

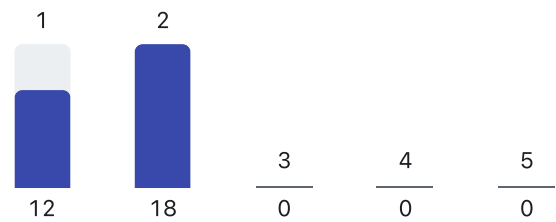
Accepted range: 3.14–3.15 · Reference: 3.14

**Answer confidence** · 30 responses**Correctness × self-rated confidence**

	Low	Medium	High
Correct	? 27	M 0	✓ 0
Incorrect	○ 3	M 0	⚠ 0

The number in each cell shows the response count.

✓ Solid understanding · ⚠ Possible misconception · ? Not yet secure · ○ Knowledge gap · M Medium confidence

Self-rated confidence distribution

Number of responses

1 = very unsure · 5 = very sure

NEXT QUESTION

QUESTION 4 OF 13

Single-answer question

Round 1

Participants: 30

Voting results

AI image or real photo?



Answer distribution



Option analysis

Most frequently selected distractor: AI-generated image — selected by 12 participants.

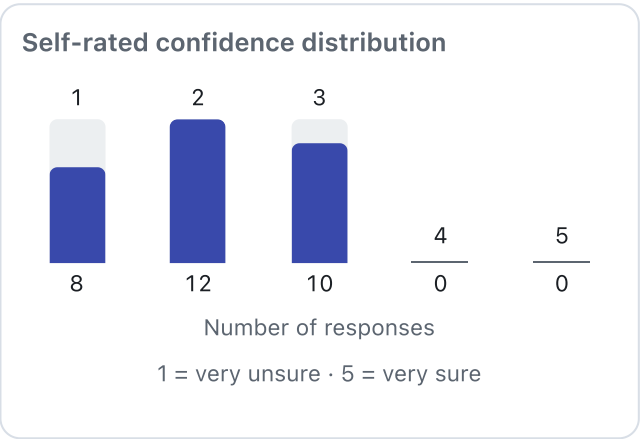
Answered correctly: 18 of 30 · 60%

Answer confidence · 30 responses

Correctness × self-rated confidence			
	Low	Medium	High
Correct	? 11	M 7	✓ 0
Incorrect	○ 9	M 3	⚠ 0

The number in each cell shows the response count.

✓ Solid understanding · ⚠ Possible misconception · ? Not yet secure · ○ Knowledge gap · M Medium confidence



NEXT QUESTION

QUESTION 5 OF 13

Multiple-answer question

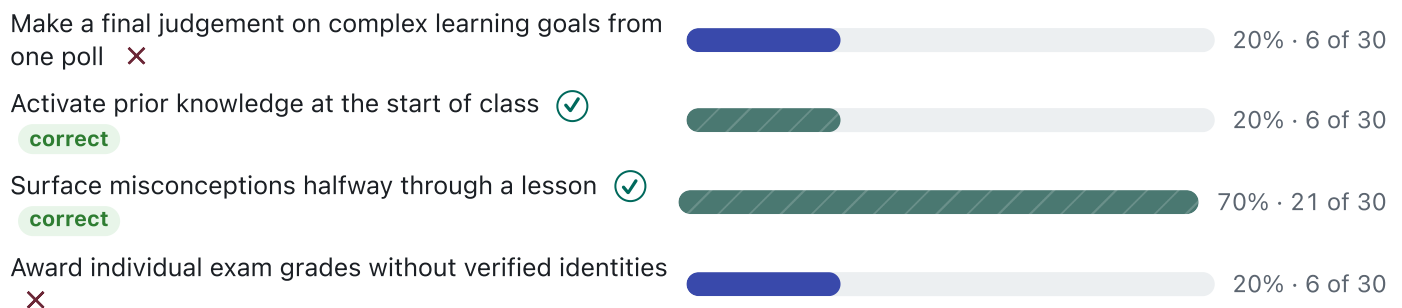
Round 1

Participants: 30

Voting results

Which of these are strong use cases for a quick live check?*Select all that apply.***Answer distribution**

A response is fully correct only when all correct options and no incorrect option were selected.



Percentages show the share of participants who selected each option. Because multiple selections were allowed, the total may exceed 100%.

Option analysis

Most frequently selected incorrect option: Make a final judgement on complex learning goals from one poll — selected by 6 participants.

Most frequently missed correct option: Activate prior knowledge at the start of class — missed by 24 participants.

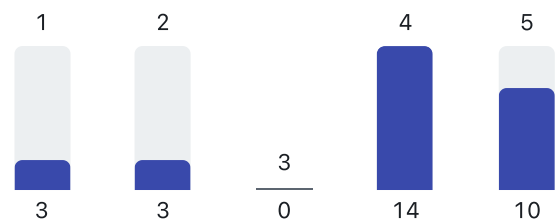
Fully correct: 3 of 30 · 10%

Question 5 - continued: Which of these are strong use cases for a quick live check?**Answer confidence** · 30 responses**Correctness × self-rated confidence**

	Low	Medium	High
Correct	? 3	M 0	✓ 0
Incorrect	○ 3	M 0	⚠ 24

The number in each cell shows the response count.

✓ Solid understanding · ⚠ Possible misconception · ? Not yet secure · ○ Knowledge gap · M Medium confidence

Self-rated confidence distribution

Number of responses

1 = very unsure · 5 = very sure

⚠ Debrief prompt

24 participants answered incorrectly with high confidence. All of them missed the correct option "Activate prior knowledge at the start of class". 6 also selected "Award individual exam grades without verified identities".

First clarify why "Activate prior knowledge at the start of class" is required for a fully correct response. Then discuss why "Award individual exam grades without verified identities" does not apply.

NEXT QUESTION**QUESTION 6 OF 13**

Single-answer question

Round 1

Participants: 30

Voting results

How many externally visible cubies make up a classic 3×3 Rubik's Cube?

The question refers to the classic Rubik's Cube designed by Ernő Rubik.

Optional resource: [How to solve a 3×3 Rubik's Cube with no prior experience — German-language resource.](#)**Answer distribution****Option analysis****Most frequently selected distractor:** 22 — selected by 27 participants.

Incorrect option "24" was not chosen in this session. If this repeats, consider revising it.

Incorrect option "28" was not chosen in this session. If this repeats, consider revising it.

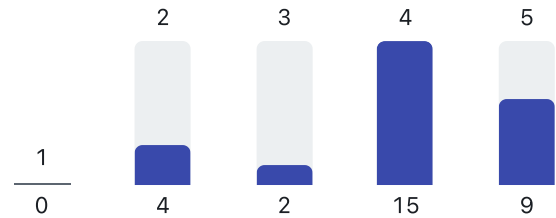
Answered correctly: 3 of 30 · 10%

Question 6 - continued: How many externally visible cubies make up a classic 3x3 Rubik's Cube?**Answer confidence** · 30 responses**Correctness × self-rated confidence**

	Low	Medium	High
Correct	? 2	M 1	✓ 0
Incorrect	○ 2	M 1	⚠ 24

The number in each cell shows the response count.

✓ Solid understanding · ⚠ Possible misconception · ? Not yet secure · ○ Knowledge gap · M Medium confidence

Self-rated confidence distribution

Number of responses
1 = very unsure · 5 = very sure

⚠ Debrief prompt

24 participants answered incorrectly with high confidence. All of them missed the correct option "26". 24 also selected "22".

First explain why "26" is the correct answer. Then discuss why "22" is incorrect.

NEXT QUESTION

QUESTION 7 OF 13

Single-answer question

Round 1

Participants: 30

Voting results

Which creative-coding environment was this sketch written for?

```
float angle = 0;

void setup() {
  size(130, 130, OPENGLE);
}

void draw() {
  background(100);

  translate(60, 40, 0);
  rotateY(angle);
  angle += .01;

  beginShape(TRIANGLES);
  vertex(0, 40, 0);
  vertex(40, 40, 0);
  vertex(20, 0, -20);

  vertex(0, 40, 0);
  vertex(20, 40, -40);
  vertex(20, 0, -20);

  vertex(40, 40, 0);
  vertex(20, 40, -40);
  vertex(20, 0, -20);
  endShape();
}
```

Answer distribution



Option analysis

Most frequently selected distractor: Groovy — selected by 22 participants.

Incorrect option "Scala" was not chosen in this session. If this repeats, consider revising it.

Incorrect option "Python" was not chosen in this session. If this repeats, consider revising it.

Answered correctly: 8 of 30 · 27%

Only about 27% answered correctly in this session. Consider reviewing the wording, required prior knowledge, and time limit.

Question 7 - continued: Which creative-coding environment was this sketch written for?

Answer confidence was disabled for this question.

NEXT QUESTION**QUESTION 8 OF 13**

Short answer

Round 1

Participants: 30

Voting results

What is the teaching method called in which learners vote individually, discuss briefly, and then vote again?

Expected answer: the established instructional term for this sequence.

Submitted answersPeer Instruction  correct

33% · 10 of 30

Accepted solutions

- Peer Instruction
- Peer-Instruction
- Mazur method
- Mazur's method

Answered correctly: 10 of 30 · 33%

Only about 33% answered correctly in this session. Consider reviewing the wording, required prior knowledge, and time limit.

Most frequent incorrect responses

1. "Think Pair Share" · 20 of 30

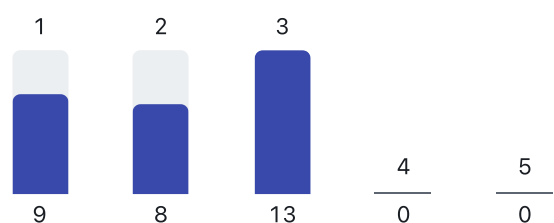
Answer confidence · 30 responses

Correctness × self-rated confidence

	Low	Medium	High
Correct	? 6	M 4	✓ 0
Incorrect	○ 11	M 9	⚠ 0

The number in each cell shows the response count.

✓ Solid understanding · ⚠ Possible misconception · ? Not yet secure · ○ Knowledge gap · M Medium confidence

Self-rated confidence distribution

Number of responses
1 = very unsure · 5 = very sure

NEXT QUESTION

QUESTION 9 OF 13

Numerical estimate

Round 2 (Peer Instruction)

Participants: 30

Result after discussion – round 2

In which year did the French Revolution begin?

Expected answer: the year commonly used as the beginning of the French Revolution.

Answered correctly: 25 of 30 · 83%

Effect of discussion

Within accepted range: 9 of 30 → 25 of 30

+53 percentage points

16 closer to the reference · 0 farther away · 14 unchanged

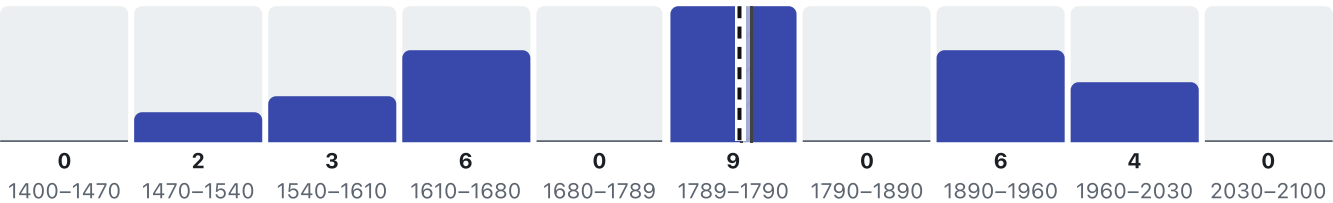
Comparison of estimation rounds

Metric	Round 1	Round 2 (Peer Instruction)
Responses	30	30
Mean	1780	1783
Median	1789	1789
Standard deviation	152	62
Within tolerance	30%	83.3%

Change: 16 closer to the reference · 0 farther away · 14 unchanged

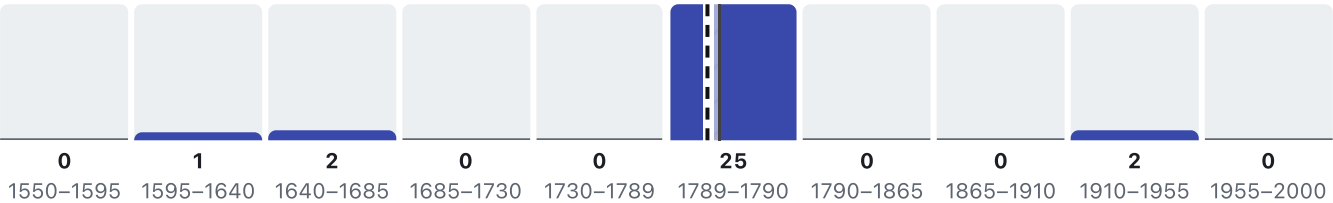
Estimates — round 1

Accepted range: 1789–1790 · Reference: 1789



Estimates — round 2

Accepted range: 1789–1790 · Reference: 1789

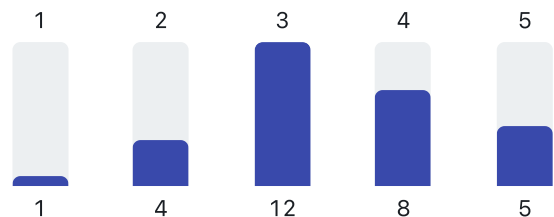


Question 9 - continued: In which year did the French Revolution begin?**Change relative to the reference value****Answer confidence** · 30 responses**Correctness × self-rated confidence**

	Low	Medium	High
Correct	? 0	M 12	✓ 13
Incorrect	○ 5	M 0	△ 0

The number in each cell shows the response count.

✓ Solid understanding · △ Possible misconception · ? Not yet secure · ○ Knowledge gap · M Medium confidence

Self-rated confidence distribution

Number of responses
1 = very unsure · 5 = very sure

NEXT QUESTION**QUESTION 10 OF 13**

Ordering question

Round 1

Participants: 30

Voting results

Put the steps of gene expression in a eukaryotic cell into the correct order.

Arrange the six steps in the correct sequence.

✓ Correct sequence (model solution)

- 1 Transcription
- 2 RNA processing
- 3 Export of mature mRNA
- 4 Initiation of translation
- 5 Elongation of the polypeptide chain
- 6 Termination and release of the polypeptide chain

Selected positions

Item	1	2	3	4	5	6
Transcription	21 (70%) ✓ Answer key	0 (0%)	0 (0%)	0 (0%)	0 (0%)	9 (30%)
RNA processing	9 (30%)	18 (60%) ✓ Answer key	3 (10%)	0 (0%)	0 (0%)	0 (0%)
Export of mature mRNA	0 (0%)	12 (40%)	15 (50%) ✓ Answer key	3 (10%)	0 (0%)	0 (0%)
Initiation of translation	0 (0%)	0 (0%)	12 (40%)	14 (47%) ✓ Answer key	4 (13%)	0 (0%)
Elongation of the polypeptide chain	0 (0%)	0 (0%)	0 (0%)	13 (43%)	17 (57%) ✓ Answer key	0 (0%)
Termination and release of the polypeptide chain	0 (0%)	0 (0%)	0 (0%)	0 (0%)	9 (30%)	21 (70%) ✓ Answer key

COMMON SWAPS

"Elongation of the polypeptide chain" ↔ "Initiation of translation" (4)

"RNA processing" ↔ "Export of mature mRNA" (3)

"Export of mature mRNA" ↔ "Initiation of translation" (3)

Fully correct: 11 of 30 · 37%

Only about 37% answered correctly in this session. Consider reviewing the wording, required prior knowledge, and time limit.

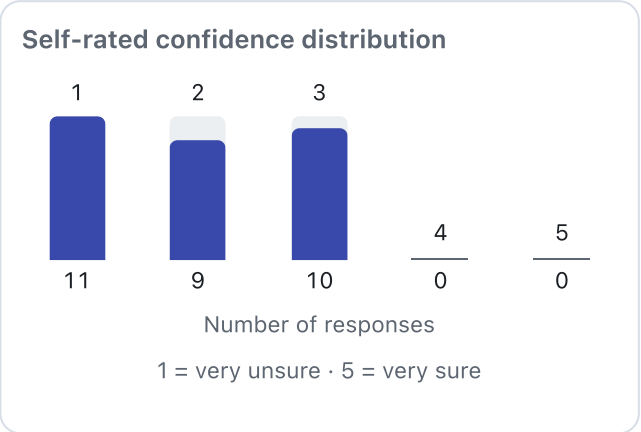
Answer confidence · 30 responses

Correctness × self-rated confidence

	Low	Medium	High
Correct	? 7	M 4	✓ 0
Incorrect	○ 13	M 6	△ 0

The number in each cell shows the response count.

✓ Solid understanding · △ Possible misconception · ? Not yet secure · ○ Knowledge gap · M Medium confidence



NEXT QUESTION

QUESTION 11 OF 13

Matching question

Round 1

Participants: 30

Voting results

Match the historical dates of the Weimar Republic to the corresponding event.*Match each date on the left to its historical milestone on the right.***✓ Correct pairs (model solution)****9 November 1918**→ **A**

Proclamation of the Republic by Philipp Scheidemann

28 June 1919→ **B**

Signing of the Treaty of Versailles

11 August 1919→ **C**

Signing of the Weimar Constitution by Friedrich Ebert

15 November 1923→ **D**

Introduction of the Rentenmark

29 October 1929→ **E**

Massive Wall Street price collapse ("Black Tuesday")

30 January 1933→ **F**

Appointment of Adolf Hitler as Chancellor

- | | |
|--|--|
| A Proclamation of the Republic by Philipp Scheidemann | B Signing of the Treaty of Versailles |
| C Signing of the Weimar Constitution by Friedrich Ebert | D Introduction of the Rentenmark |
| E Massive Wall Street price collapse ("Black Tuesday") | F Appointment of Adolf Hitler as Chancellor |

Selected matches

Item	A	B	C	D	E	F
9 November 1918	17 (57%) ✓ Answer key	11 (37%)	0 (0%)	0 (0%)	0 (0%)	2 (7%)
28 June 1919	2 (7%)	17 (57%) ✓ Answer key	11 (37%)	0 (0%)	0 (0%)	0 (0%)
11 August 1919	0 (0%)	2 (7%)	17 (57%) ✓ Answer key	11 (37%)	0 (0%)	0 (0%)
15 November 1923	0 (0%)	0 (0%)	2 (7%)	18 (60%) ✓ Answer key	10 (33%)	0 (0%)
29 October 1929	0 (0%)	0 (0%)	0 (0%)	1 (3%)	19 (63%) ✓ Answer key	10 (33%)
30 January 1933	11 (37%)	0 (0%)	0 (0%)	0 (0%)	1 (3%)	18 (60%) ✓ Answer key

HIT RATE PER PAIR

9 November 1918 → Proclamation of the Republic by Philipp Scheidemann	57%
28 June 1919 → Signing of the Treaty of Versailles	57%
11 August 1919 → Signing of the Weimar Constitution by Friedrich Ebert	57%
15 November 1923 → Introduction of the Rentenmark	60%
29 October 1929 → Massive Wall Street price collapse ("Black Tuesday")	63%
30 January 1933 → Appointment of Adolf Hitler as Chancellor	60%

COMMON MISMATCHES

28 June 1919 → Signing of the Weimar Constitution by Friedrich Ebert · 11

9 November 1918 → Signing of the Treaty of Versailles · 11

11 August 1919 → Introduction of the Rentenmark · 11

30 January 1933 → Proclamation of the Republic by Philipp Scheidemann · 11

15 November 1923 → Massive Wall Street price collapse ("Black Tuesday") · 10

29 October 1929 → Appointment of Adolf Hitler as Chancellor · 10

11 August 1919 → Signing of the Treaty of Versailles · 2

28 June 1919 → Proclamation of the Republic by Philipp Scheidemann · 2

Fully correct: 11 of 30 · 37%

Only about 37% answered correctly in this session. Consider reviewing the wording, required prior knowledge, and time limit.

Answer confidence · 30 responses**Correctness x self-rated confidence**

	Low	Medium	High
Correct	? 7	M 4	✓ 0
Incorrect	○ 14	M 5	△ 0

The number in each cell shows the response count.

✓ Solid understanding · △ Possible misconception · ? Not yet secure · ○ Knowledge gap · M Medium confidence

Self-rated confidence distribution

Number of responses
1 = very unsure · 5 = very sure

NEXT QUESTION**QUESTION 12 OF 13**

Categorization question

Round 1

Participants: 30

Voting results

Categorise the following six works by literary period.

Assign each item to one of the three literary movements.

✓ Correct categories (model solution)**Enlightenment (c. 1720–1785)**

- Nathan the Wise
- Emilia Galotti

Sturm und Drang (c. 1765–1785)

- The Sorrows of Young Werther
- The Robbers

Romanticism (c. 1795–1835)

- The Sandman
- Moonlit Night

Selected categories

Item	Enlightenment (c. 1720–1785)	Sturm und Drang (c. 1765–1785)	Romanticism (c. 1795–1835)
Nathan the Wise	11 (37%) ✓ Answer key	19 (63%)	0 (0%)
Emilia Galotti	11 (37%) ✓ Answer key	19 (63%)	0 (0%)
The Sorrows of Young Werther	19 (63%)	11 (37%) ✓ Answer key	0 (0%)
The Robbers	19 (63%)	11 (37%) ✓ Answer key	0 (0%)
The Sandman	19 (63%)	0 (0%)	11 (37%) ✓ Answer key
Moonlit Night	19 (63%)	0 (0%)	11 (37%) ✓ Answer key

COMMON MISCLASSIFICATIONS

Nathan the Wise → Sturm und Drang (c. 1765–1785) · 19

Emilia Galotti → Sturm und Drang (c. 1765–1785) · 19

The Sorrows of Young Werther → Enlightenment (c. 1720–1785) · 19

The Robbers → Enlightenment (c. 1720–1785) · 19

The Sandman → Enlightenment (c. 1720–1785) · 19

Moonlit Night → Enlightenment (c. 1720–1785) · 19

Fully correct: 11 of 30 · 37%

Only about 37% answered correctly in this session. Consider reviewing the wording, required prior knowledge, and time limit.

Answer confidence · 30 responses

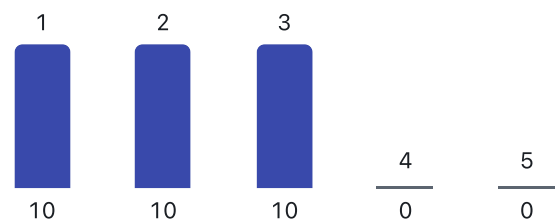
Correctness × self-rated confidence

	Low	Medium	High
Correct	? 6	M 5	✓ 0
Incorrect	○ 14	M 5	△ 0

The number in each cell shows the response count.

✓ Solid understanding · △ Possible misconception · ? Not yet secure · ○ Knowledge gap · M Medium confidence

Self-rated confidence distribution



Number of responses

1 = very unsure · 5 = very sure

NEXT QUESTION

QUESTION 13 OF 13

Rating

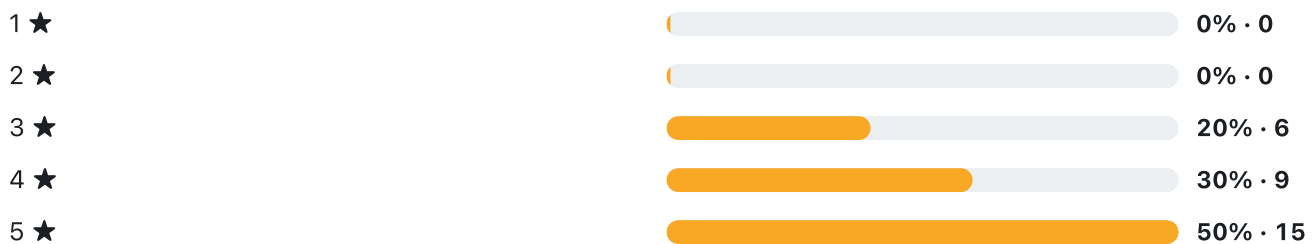
Round 1

Participants: 30

Voting results

How likely are you to try a live quiz like this in one of your own classes?

Rating on a scale from 1 to 5

Avg. 4.3 out of 5 ★ · σ 0.78

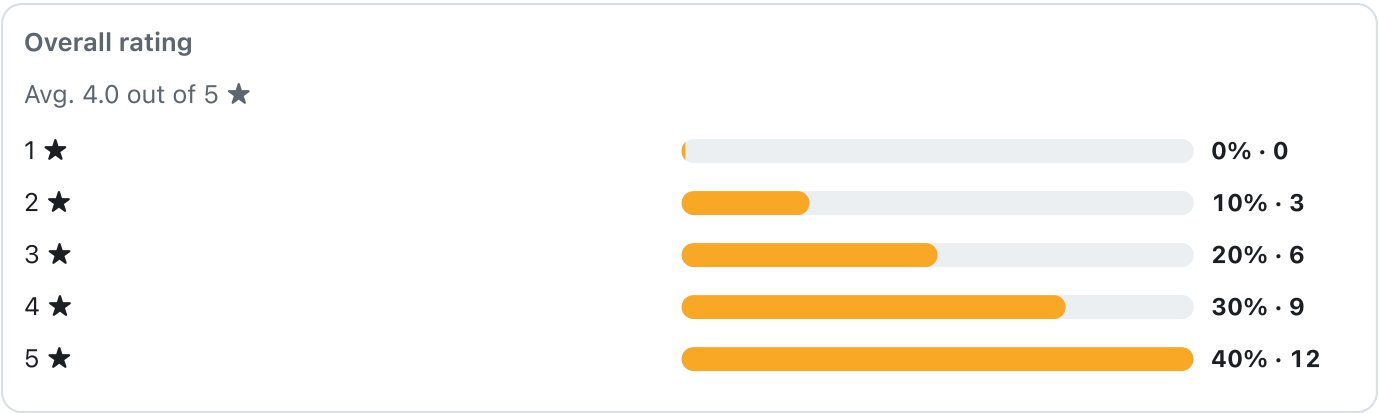
1 = very unlikely · 5 = very likely

Answer confidence is not collected for "Rating" questions.

[↑ Back to overview](#)**Next steps**

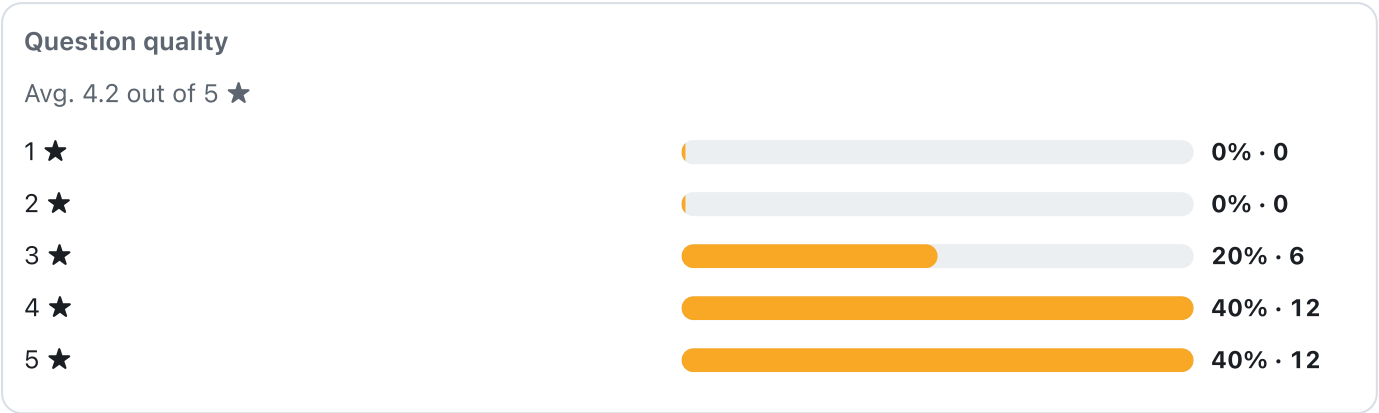
1. For Question 5, address the missed option "Activate prior knowledge at the start of class".
2. For Question 6, explain why 22 is incorrect and 26 is correct.
3. For Questions 8, 10, 11, 12, 4, and 7, revisit the underlying concepts.
4. For Question 9, reinforce the correct answer; the correct-response rate was about 83%, but confidence was not consistently high.
5. For Question 3, confirm the correct reasoning; the correct-response rate was 90%, but all responses were given with low confidence.

Participant feedback



30 responses · 100% response rate

70% of respondents gave the session four or five stars.



80% of respondents rated the quality of the questions four or five stars.

24 of 30 participants would like more quizzes · 80%

[↑ Back to overview](#)

Team ranking

Points are used for ranking and reflect correctness, question difficulty, response time when a timer is active, and streak bonuses. Answer confidence does not affect points. Because the maximum attainable score depends on the quiz setup and session flow, scores are not percentages and should not be compared across sessions.

The team score is the average of members' scores, so teams of different sizes remain comparable.

Rank	Team	Members	Team score
1	Team 🍎	15	12,597.7
2	Team 🥑	15	6,246.6

Team learning profile

Only teams with at least five members are shown. Strengths: correct-response rate of at least 80% · Needs review: correct-response rate of 40% or lower.

Team	Needs review	Strengths
Team 🍎	Question 5 · 7%, Question 6 · 7%	Question 9 · 100%, Question 3 · 87%
Team 🍌	Question 5 · 13%, Question 6 · 13%	Question 3 · 93%

Bonus codes

Pseudonymous codes can be linked to identities only through voluntary email submission.

Rank	Nickname	Code	Points	Generated at
1	White Rabbit	BNS-8R2R-SH8Z	21,983	9 Aug 2026, 16:19
2	Purple Dolphin	BNS-D8RT-L6SN	17,288	9 Aug 2026, 16:19
3	Red Dragon	BNS-5LX4-L9S3	17,190	9 Aug 2026, 16:19

Created with arsnova.eu · Export 9 Aug 2026, 16:19 · Session ECYHEY