Use intelligent algorithms and data analytics to...

- improve questioning
- manage discussions
- facilitate time management/flow
1. A 30-year fixed rate mortgage at 12%
   b. A 15-year fixed rate mortgage at 12%
   c. A 30-year fixed rate mortgage at 12%
   d. A 15-year fixed rate mortgage at 12%

2. The biggest factor that leads American companies to manufacture their products overseas to India is:
   a. Higher quality of craftsmanship
   b. Lower labor costs
   c. Decreased transportation costs
   d. Effective legal systems

3. Which of the following correctly summarizes the accounting equation for a sole proprietorship?
   a. Assets = Liabilities + Owners’ equity
   b. Liabilities = Assets + Owners’ equity
   c. Owner’s equity = Assets + Liabilities
   d. Revenue = Assets – Liabilities

4. In order to present a business plan to a group of potential investors, a businessperson would most likely use which of the following:
   a. Powerpoint
   b. Quickbooks
   c. Peoplesoft
   d. Excel

5. In order to start an online business, an individual would need all but which of the following:
   a. A business model
   b. Quickbooks
   c. Peoplesoft
   d. Excel

6. What is the formula for straight-line depreciation?
1. A 30-year fixed rate mortgage at 12%
2. A 15-year fixed rate mortgage at 12%
3. A 15-year fixed rate mortgage at 12%

The biggest factor that leads American companies to manufacture their products overseas is:

- Higher quality of craftsmanship
- Lower labor costs
- Decreased transportation costs
- Effective legal systems

Which of the following correctly summarizes the accounting equation for a sole proprietorship?

- Assets = Liabilities + Owners’ equity
- Liabilities = Assets + Owners’ equity
- Owner’s equity = Assets + Liabilities
- Revenue = Assets – Liabilities

In order to present a business plan to a group of potential investors, a businessperson would most likely use which of the following?

- Powerpoint
- Quickbooks
- Peoplesoft
- Excel

In order to start an online business, an individual would need all but which of the following?

- A business model
- A website
- Social media presence
- A high-speed internet connection

extensible plug-in architecture for question types
Sample question types:

- direction
- mathematical expression
- long answer, short answer, word cloud
- numerical, data collection
- ranking, priority
- region (select point on image)
- sketch, composite sketch
- highlight passage
Sample question types:

- direction
- mathematical expression
- long answer, short answer, word cloud
- numerical, data collection
- ranking, priority
- region (select point on image)
- sketch, composite sketch
- highlight passage
This image shows Oahu as seen from the Space Shuttle. The image provides several clues about the direction of prevailing winds in Oahu. Indicate this direction by drawing an arrow on your screen.
This image shows Oahu as seen from the Space Shuttle. The image provides several clues about the direction of prevailing winds in Oahu. Indicate this direction by drawing an arrow on your screen.
Optics I

Light enters horizontally into the combination of two perpendicular mirrors as shown below.

Indicate the direction of the incident light after it reflects off of both mirrors.
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Sample question types:
- direction
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- long answer, short answer, word cloud
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- region (select point on image)
- sketch, composite sketch
- highlight passage

2. The biggest factor that leads American companies to manufacture their products overseas is:
   a. Lower labor costs
   b. Decrease in transportation costs
   c. Effective legal systems
   d. Higher quality of craftsmanship

3. Which of the following correctly summarizes the accounting equation for a sole proprietorship?
   a. Assets = Liabilities + Owners’ equity
   b. Liabilities = Assets + Owner’s equity
   c. Owner’s equity = Assets - Liabilities
   d. Revenues - Expenses = Assets - Liabilities

4. In order to create a business plan for a group of potential investors, a businessperson would most likely use which of the following:
   a. PowerPoint
   b. Quickbooks
   c. PeopleSoft
   d. Excel

5. In order to start an online business, an individual would need all but which of the following.
If $2x - y = 4$, then $x =$
Sample question types:

- direction
- mathematical expression
- long answer, short answer, word cloud
- numerical, data collection
- ranking, priority
- region (select point on image)
- sketch, composite sketch
- highlight passage

2. The biggest factor that leads American companies to manufacture their products overseas is:
   a. Higher quality of craftsmanship
   b. Lower labor costs
   c. Decreased transportation costs
   d. Effective legal systems

3. Which of the following concepts summarizes the accounting equation for a sole proprietorship?
   a. Assets = Liabilities + Owners’ equity
   b. Liabilities = Assets + Owners’ equity
   c. Owner’s equity = Assets – Liabilities
   d. Revenues = Assets – Liabilities

4. In order to create a business plan, a group of potential investors, a businessperson would most likely use which of the following?
   a. Quickbooks
   b. People
   c. Excel
   d. PowerPoint

5. In order to start an online business, an individual would need all but which of the following?
   a. A business model
   b. A domain name
   c. A brick and mortar store
   d. A social media presence
This is a graph of $f(x) = \ln x$. Sketch a graph of the derivative $f'(x)$. 

![Graph of $f(x) = \ln x$ and its derivative $f'(x)$]
This is a graph of $f(x) = \ln x$. Sketch a graph of the derivative $f'(x)$. 
This is a graph of $f(x) = \ln x$. Sketch a graph of the derivative $f'(x)$. 
Sample question types:

- direction
- mathematical expression
- long answer, short answer, word cloud
- numerical, data collection
- ranking, priority
- region (select point on image)
- sketch, composite sketch
- highlight passage
PART ABOUT TIME/FLOW MANAGEMENT
A positively charged rod is held near a neutral conducting sphere as illustrated below. A positively charged particle is moved from point A to point B at constant speed. The potential difference from A to B is

A. positive
B. zero
C. negative
D. depends on the path taken from A to B
E. cannot be determined without knowing more about the polarization induced in the sphere
A positively charged rod is held near a neutral conducting sphere as illustrated below. A positively charged particle is moved from point A to point B at constant speed. The potential difference from A to B is:

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E. cannot be determined without knowing more about the polarization induced in the sphere.
A positively charged rod is held near a neutral conducting sphere as illustrated below. A positively charged particle is moved from point A to point B at constant speed. The potential difference from A to B is

- A: positive
- B: zero
- C: negative
- D: depends on the path taken from A to B
- E: cannot be determined without knowing more about the polarization induced in the sphere.
A positively charged rod is held near a neutral conducting sphere as illustrated below. A positively charged particle is moved from point A to point B at constant speed. The potential difference from A to B is

A. positive
B. zero
C. negative
D. depends on the path taken from A to B

A cannot be determined without knowing more about the polarization induced in the sphere.
let system manage pairing
A positively charged rod is held near a neutral conducting sphere as illustrated below. A positively charged particle is moved from point A to point B at constant speed. The mechanical work required to cause this motion is

Please discuss your response with:

- Brian Lukoff (to your left)

I am talking to this person/people
A positively charged rod is held near a neutral conducting sphere as illustrated below. A positively charged particle is moved from point A to point B at constant speed. The mechanical work required to cause this motion is.

Please discuss your response with:

• Brian Lukoff (to your left)
percent changing answer

initially incorrect
initially correct

self pairing

education 2 PI 3 PI 2.0
1 lecture

2 PI

3 PI 2.0
Education is not just about:

- transferring information
- getting students to do what we do
Education is not just about:

• transferring information

• getting students to do what we do

discovery & exploration a must!
Learning Catalytics:

• implement proven, researched pedagogy
Learning Catalytics:

• implement proven, researched pedagogy

• use consumer devices
Learning Catalytics:

- implement proven, researched pedagogy
- use consumer devices
- avoid pitfalls of MC assessment
Learning Catalytics:

- implement proven, researched pedagogy
- use consumer devices
- avoid pitfalls of MC assessment
- create a smart classroom anywhere
not technology, but pedagogy matters
Funding:
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