

RI VE **Arlington School District** Arlington, MA, September 6, 2011

















**1** LCatalytics.com **2** sign up code DEMO **3** ID 123456



#### Think of something you are really good at

## BUGACE

#### 1 LCatalytics.com 2 sign up code DEMO 3 ID 123456

# In the second se

Submit response

#### Think of something you are really good at

#### Now think how you became good at it



1 LCatalytics.com 2 sign up code DEMO 3 ID 123456



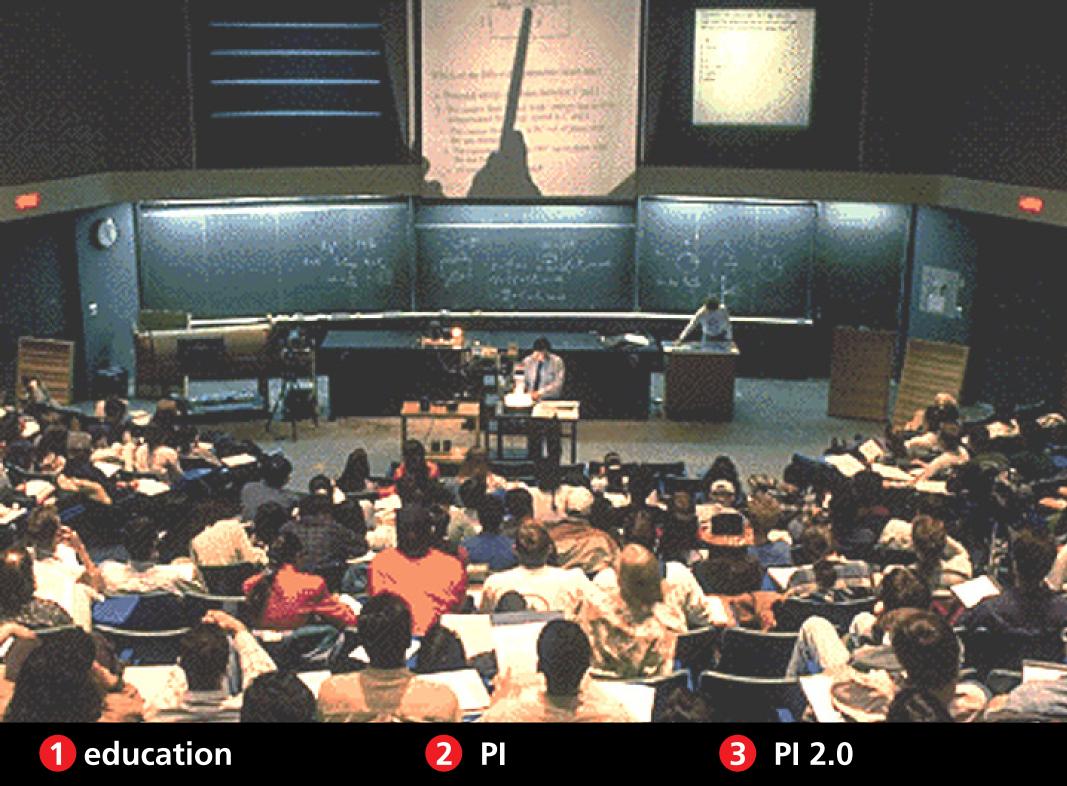






#### education





### EXCITING

stuff!

3

2

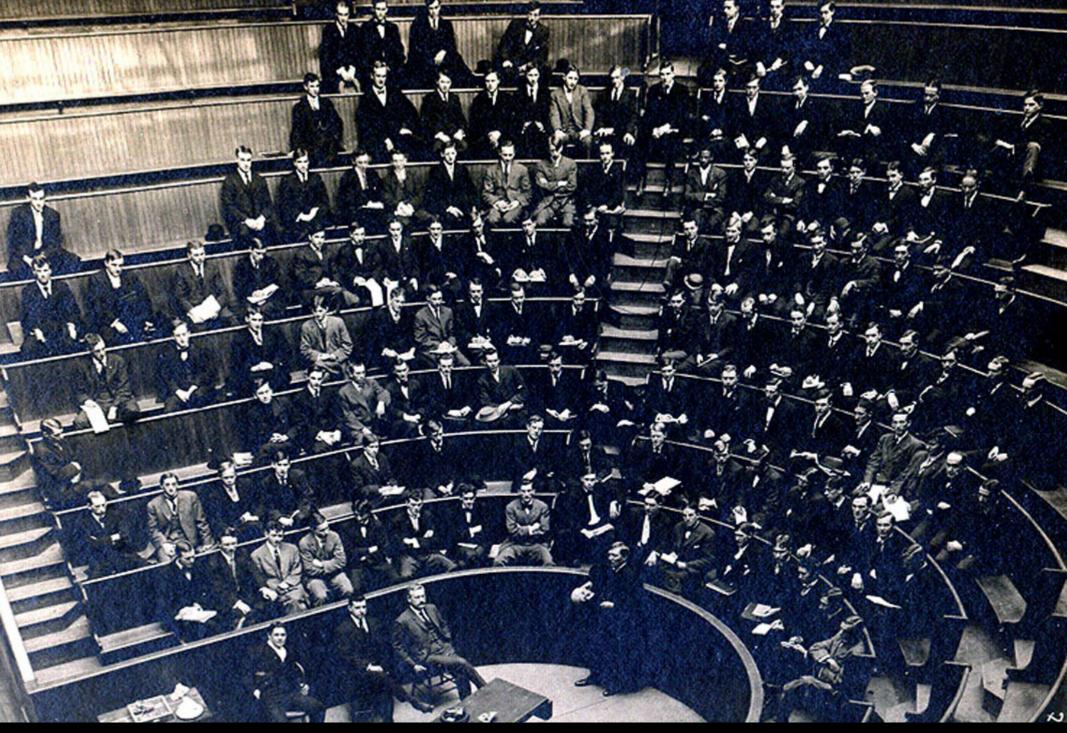
PI

PI 2.0









#### 1 education



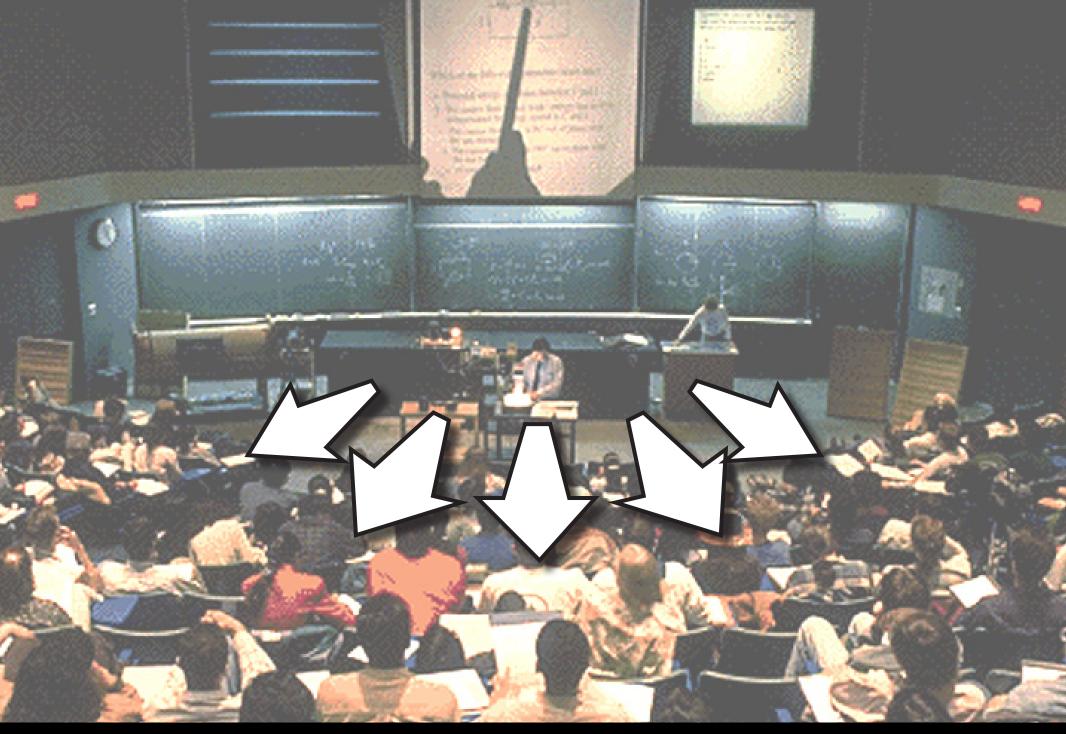


# What happens in a lecture?

























#### education



#### 1. transfer of information







#### 1. transfer of information

#### 2. assimilation of that information





#### 1. transfer of information (in class)

#### 2. assimilation of that information





#### 1. transfer of information (in class)

#### 2. assimilation of that information (out of class)





#### Should focus on THIS!

1. transfer of information (I)

#### 2. assimilation of that information (out of class)





#### 1. transfer of information (in class)

#### 2. assimilation of that information (out of class)





#### 1. transfer of information (out of class)

#### 2. assimilation of that information (in class)



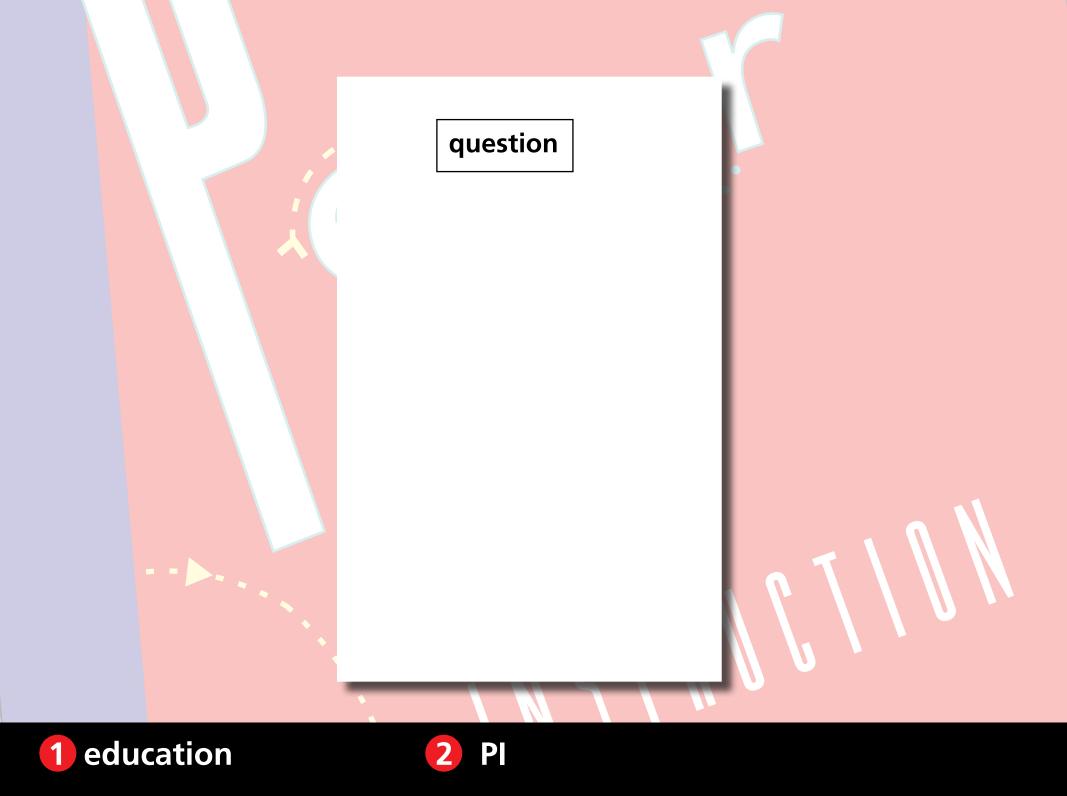


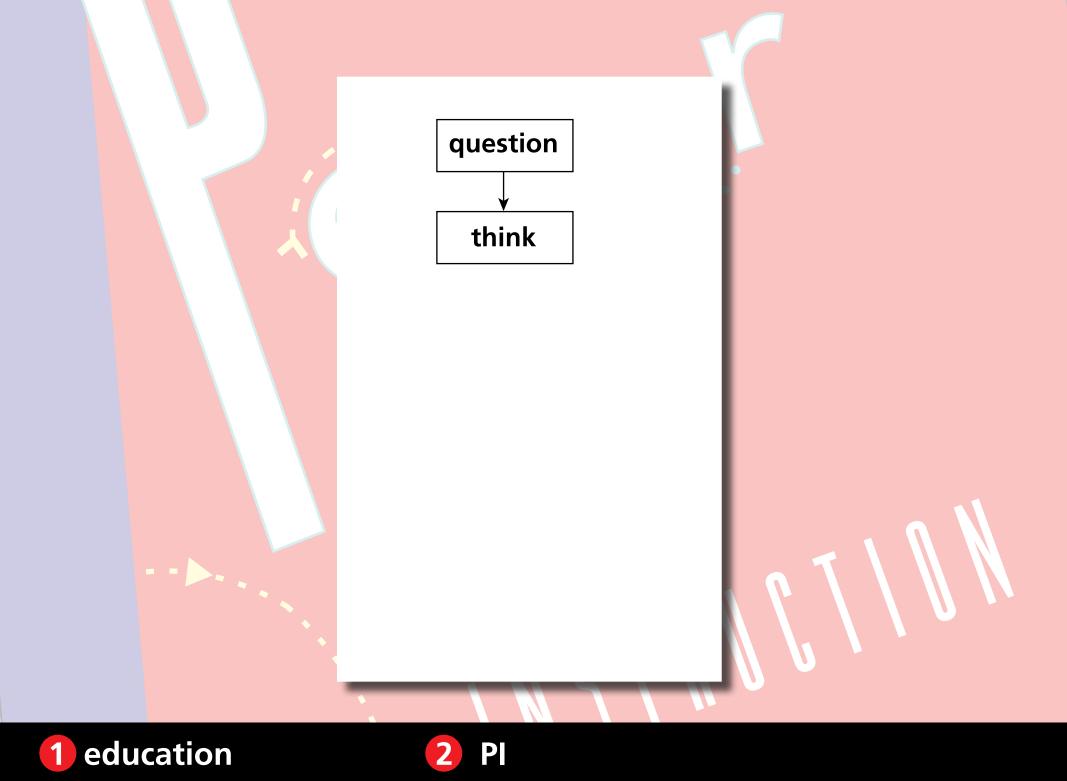
#### **1. transfer of information (out of class)**

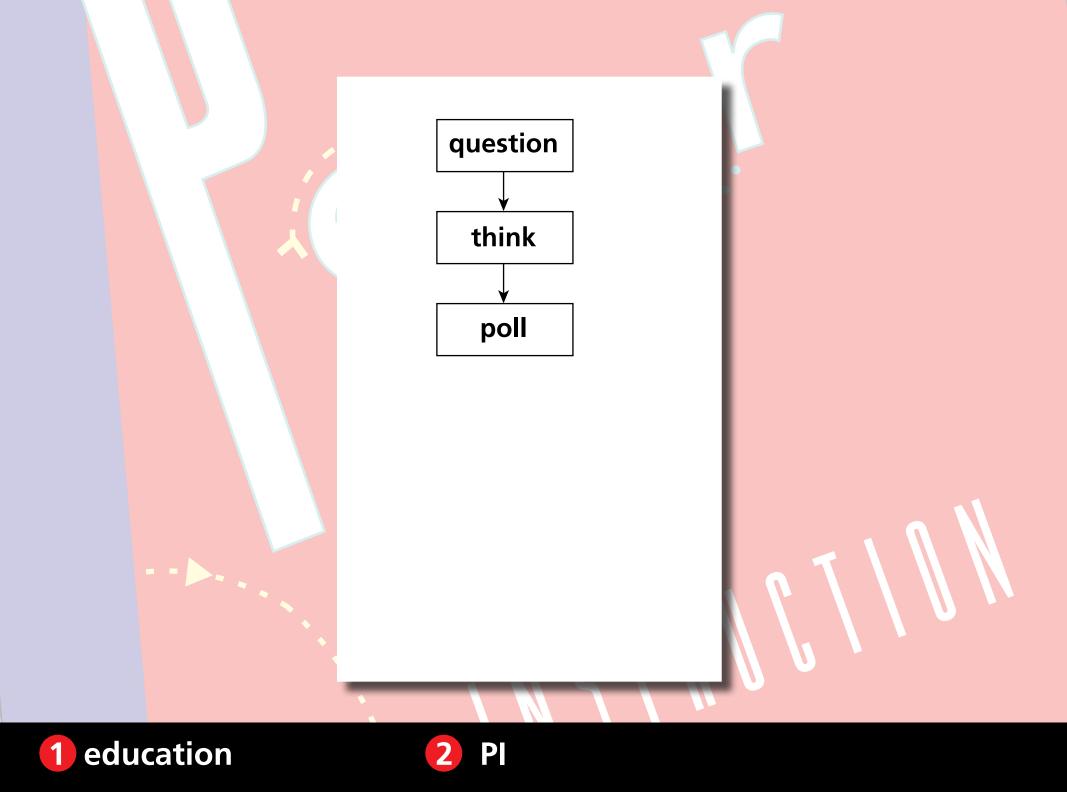
#### 2. assimilation of that information (in class)

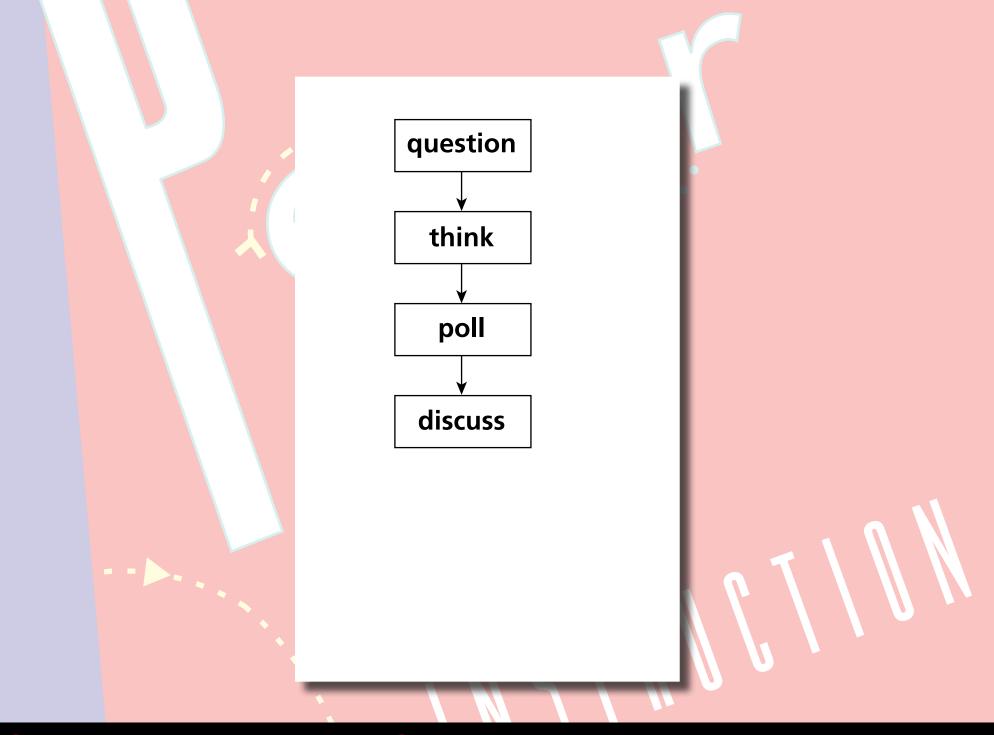






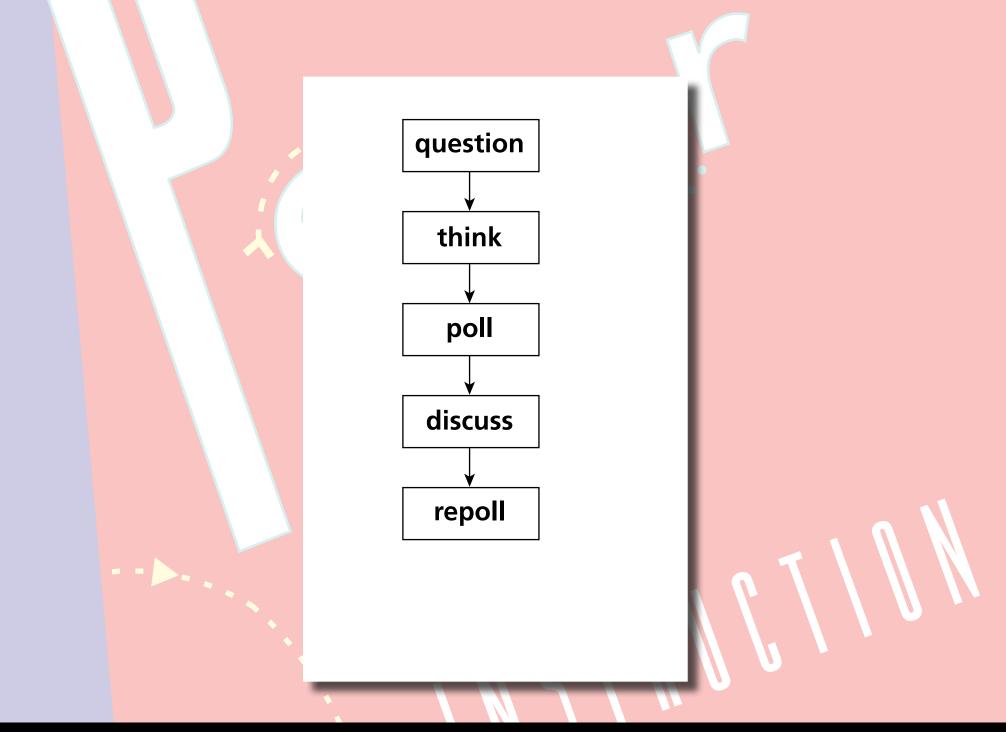






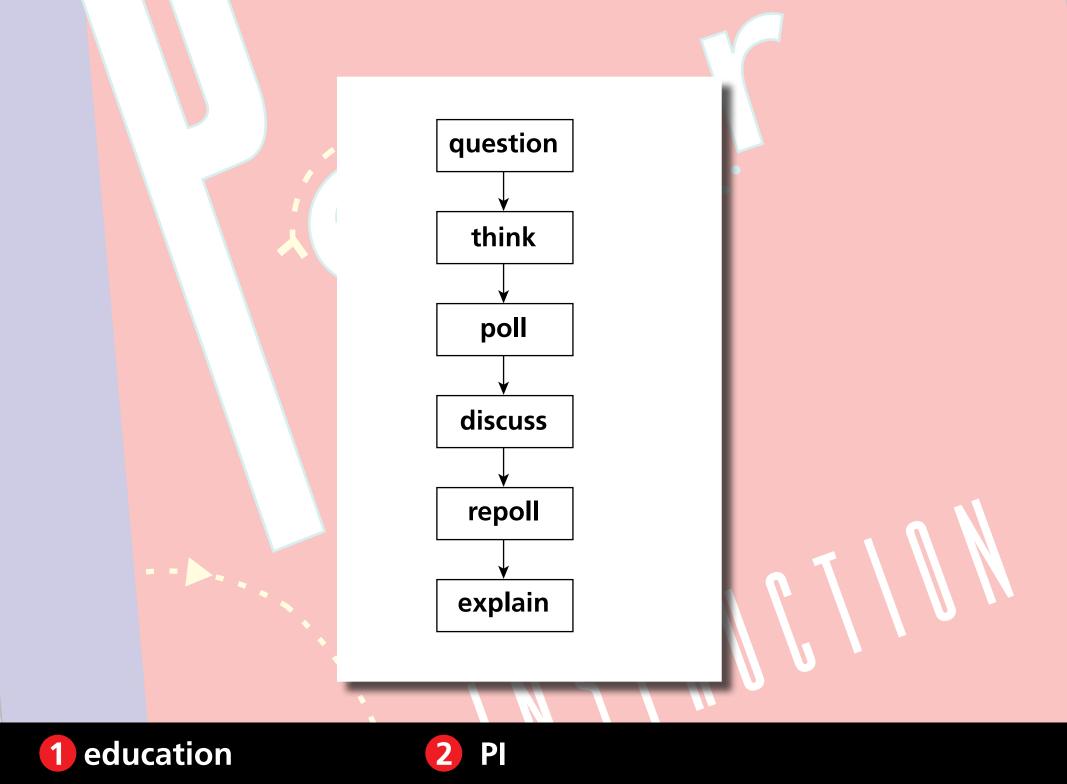


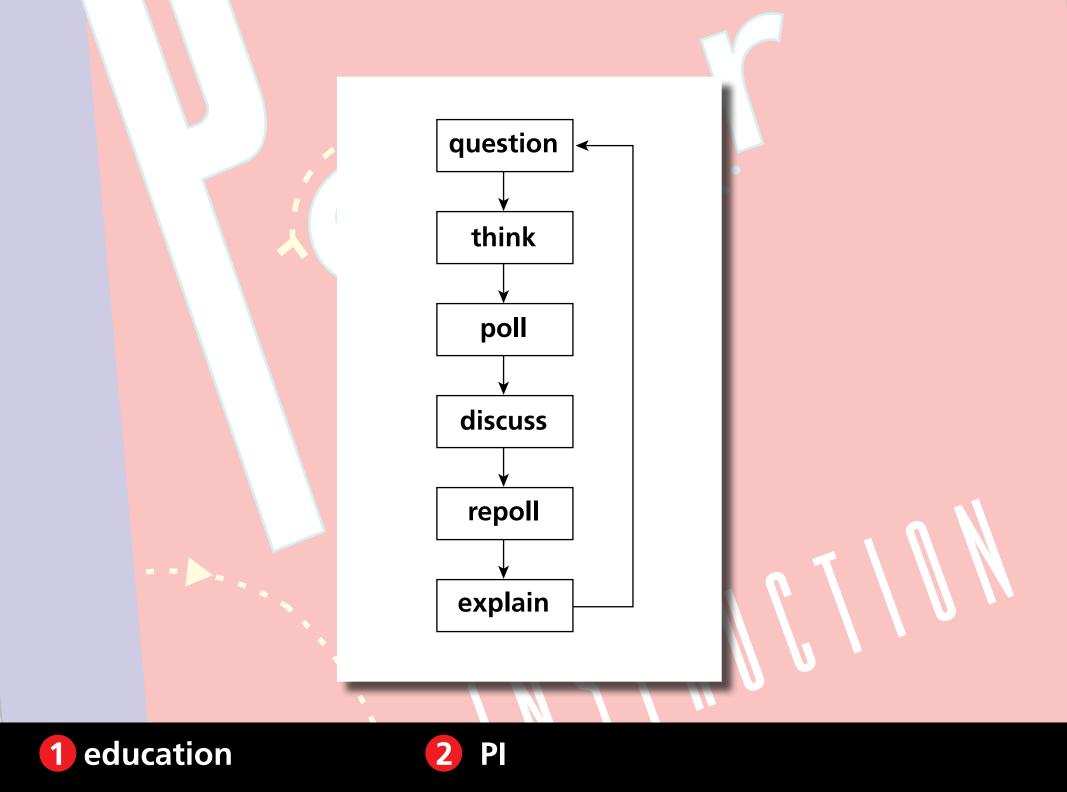


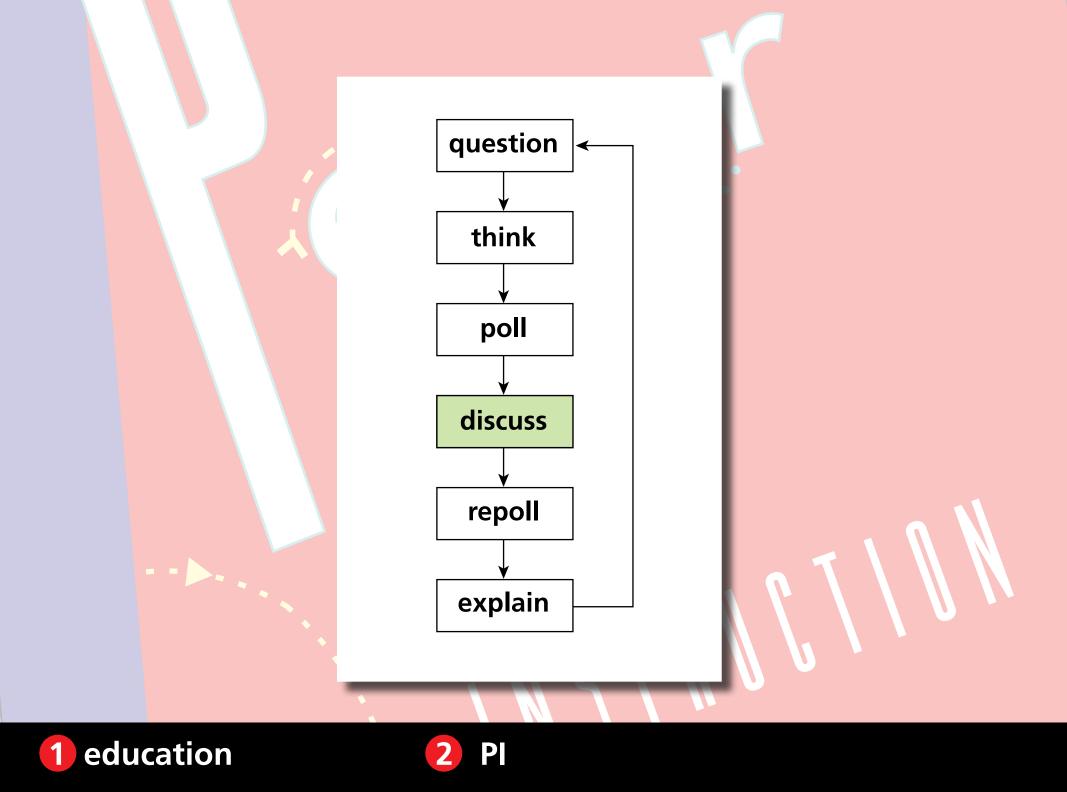






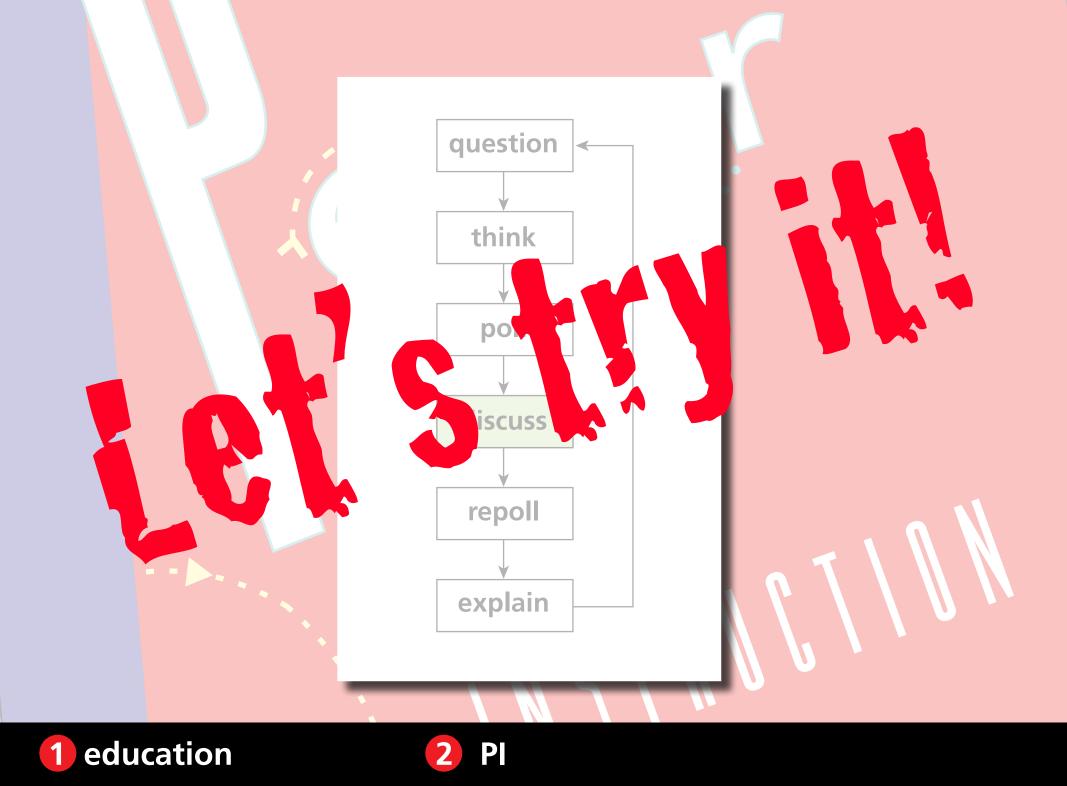






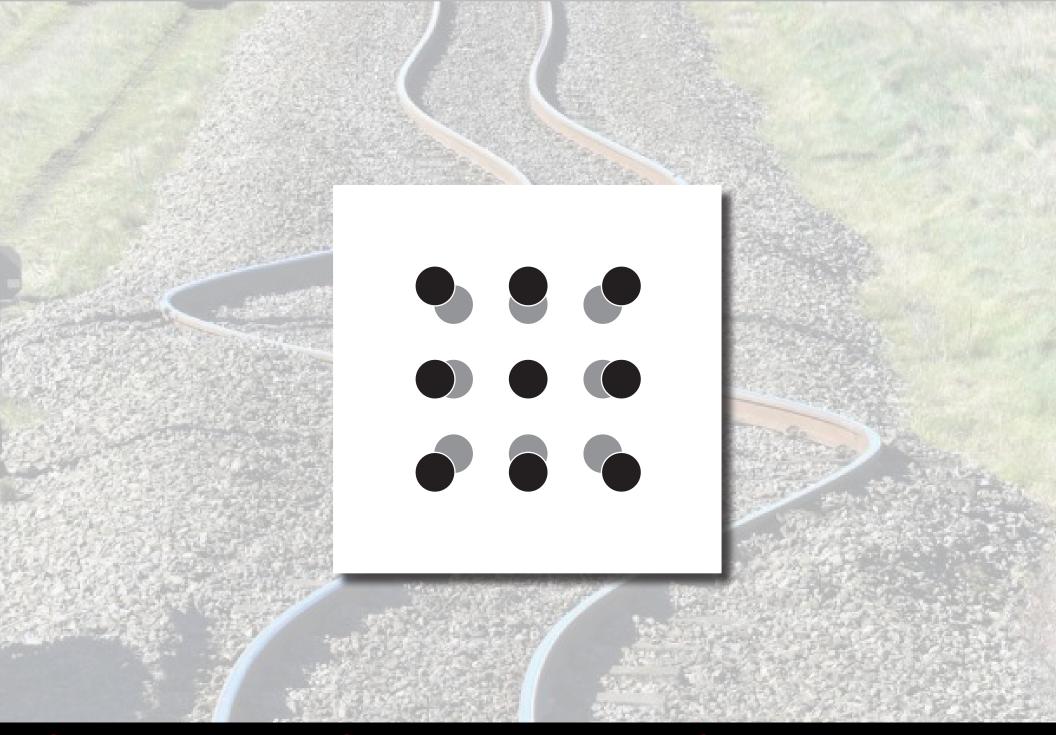




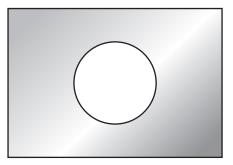


#### thermal expansion



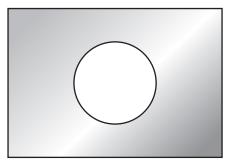






When the plate is uniformly heated, the diameter of the hole

- 1. increases.
- 2. stays the same.
- 3. decreases.



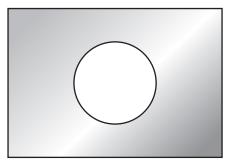
When the plate is uniformly heated, the diameter of the hole

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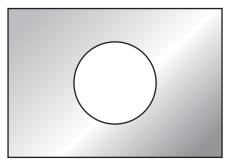
When the plate is uniformly heated, the diameter of the hole

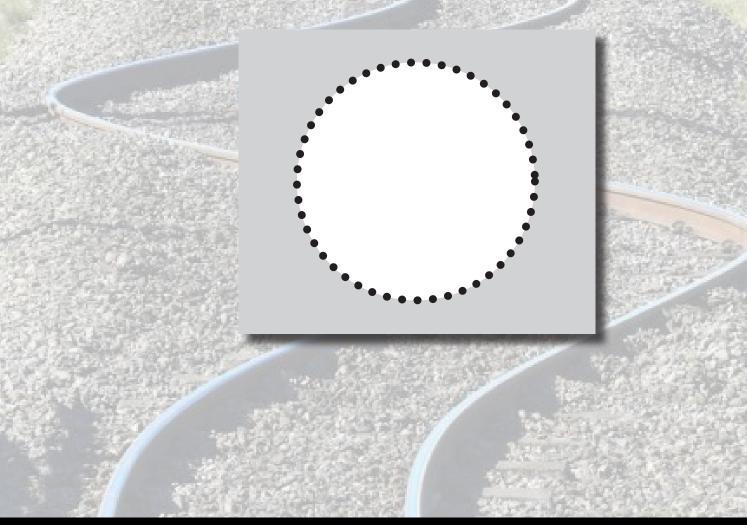
- 1. increases.
- 2. stays the same.
- 3. decreases.



When the plate is uniformly heated, the diameter of the hole

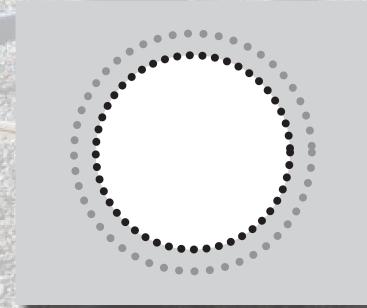
- 1. increases. 🖌
- 2. stays the same.
- 3. decreases.





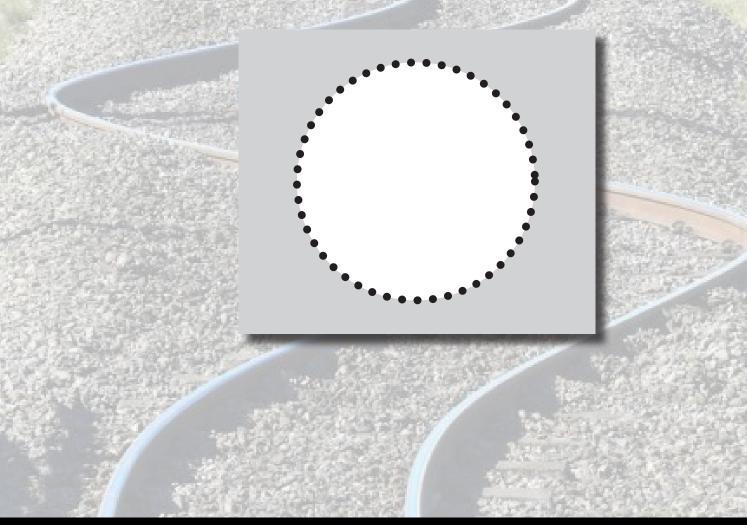






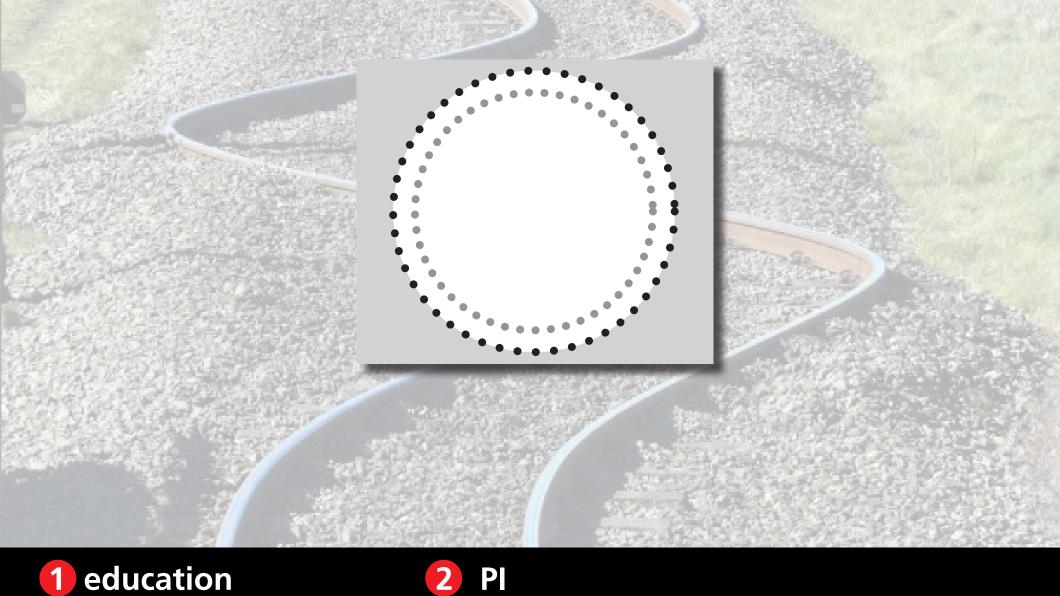
















































### feedback

















































Use intelligent algorithms and data analytics to...

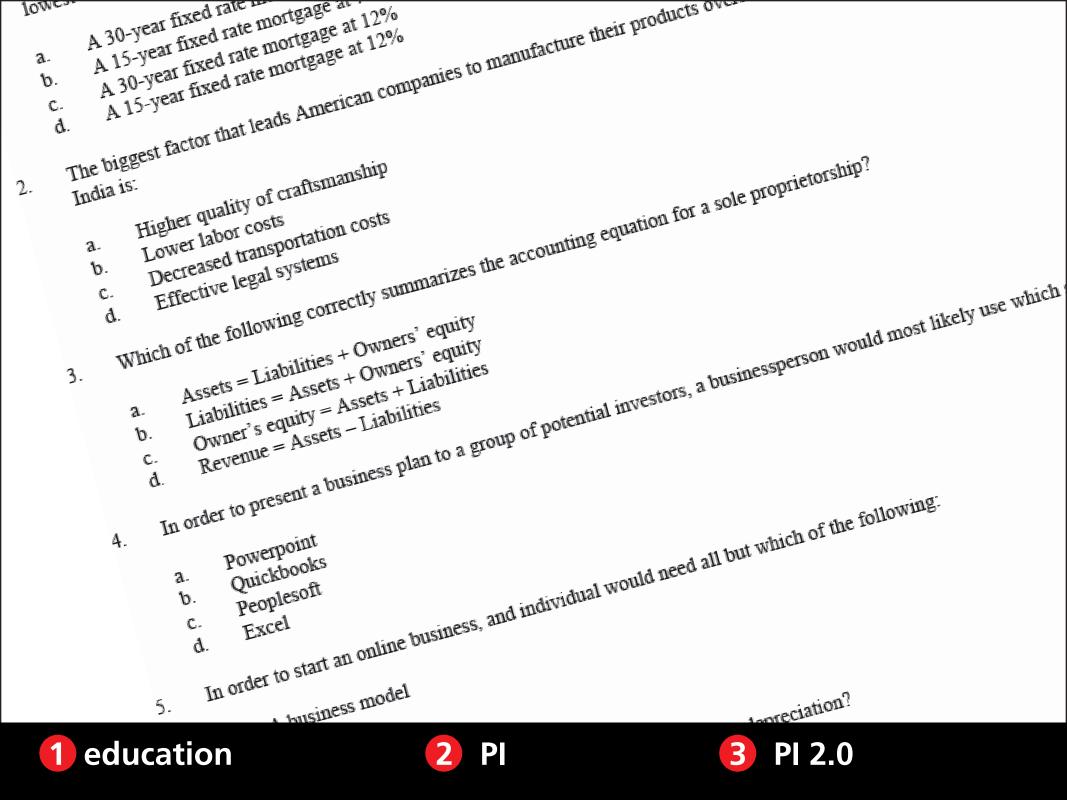
- improve questioning
  - manage discussions
  - facilitate time management/flow

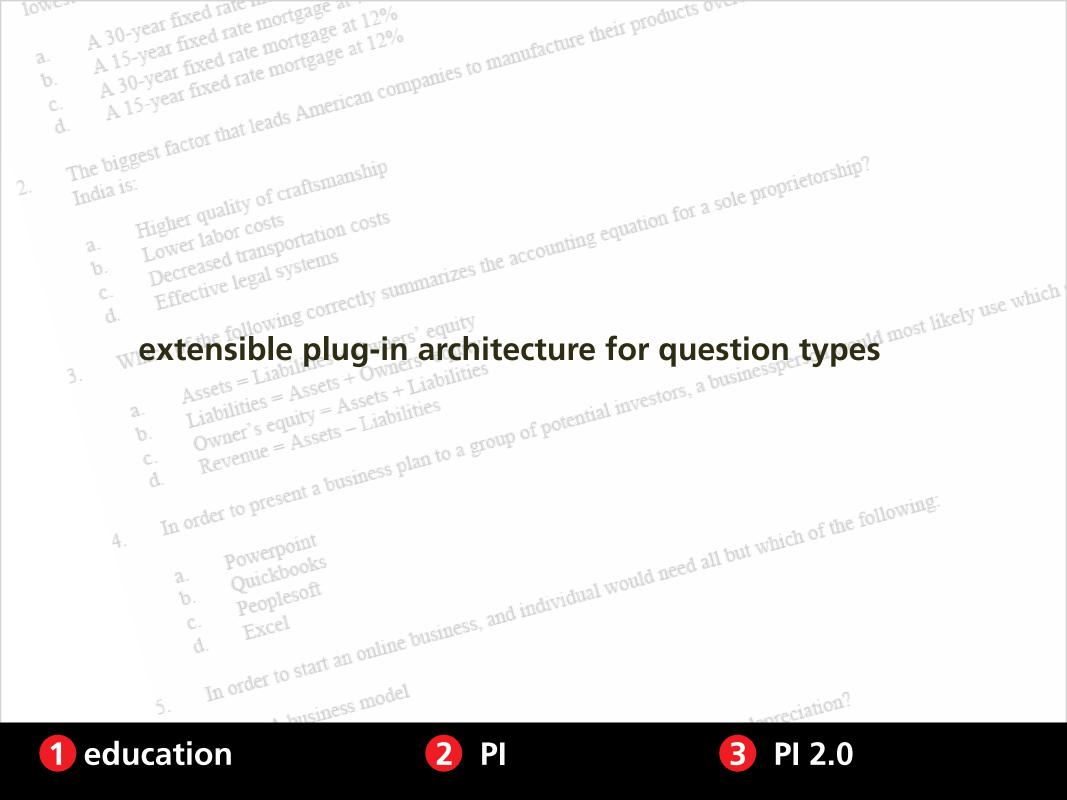


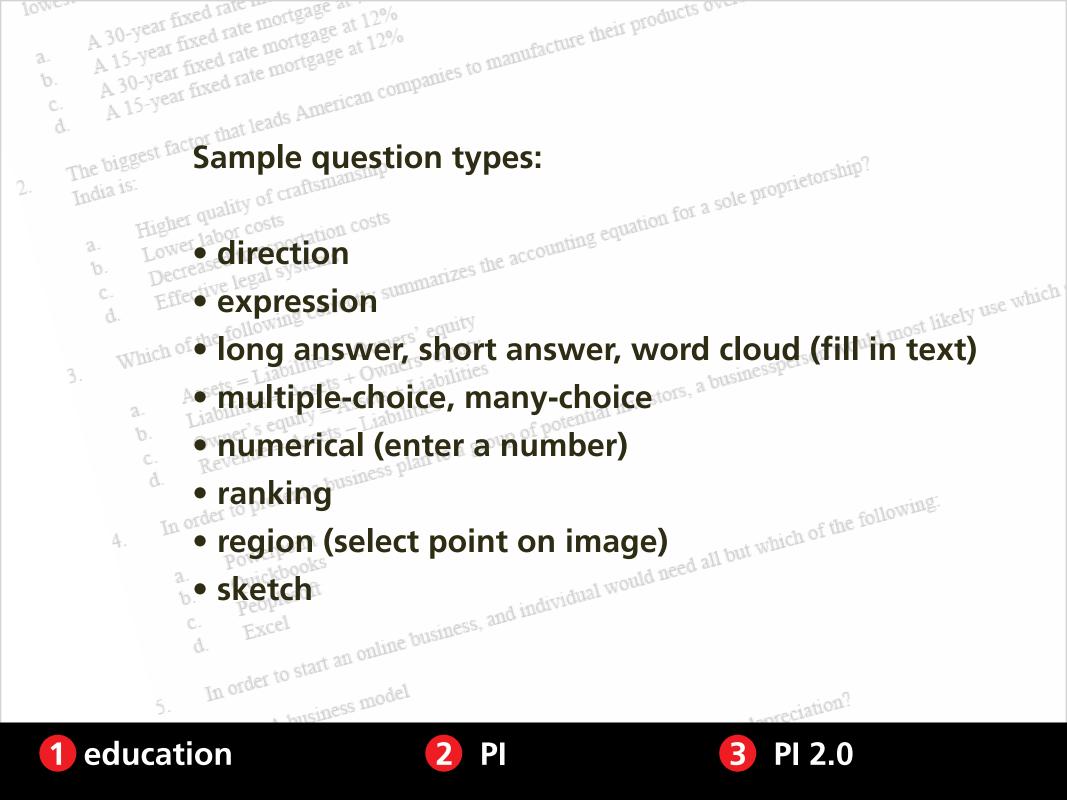


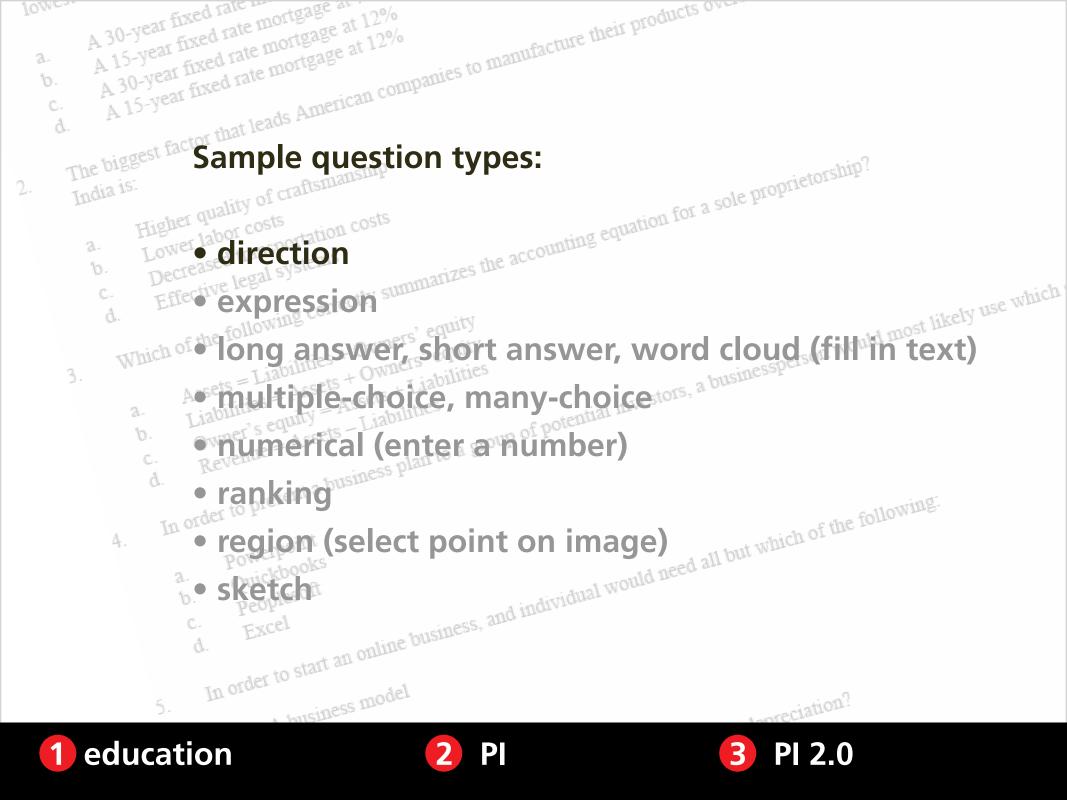


catalytics











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## learning catalytics

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

📼 Deliver 👔 Show all results



Indicate the direction of the incident light after it reflects off of both mirrors.

🣢 feedback & support







A 10

## learning catalytics

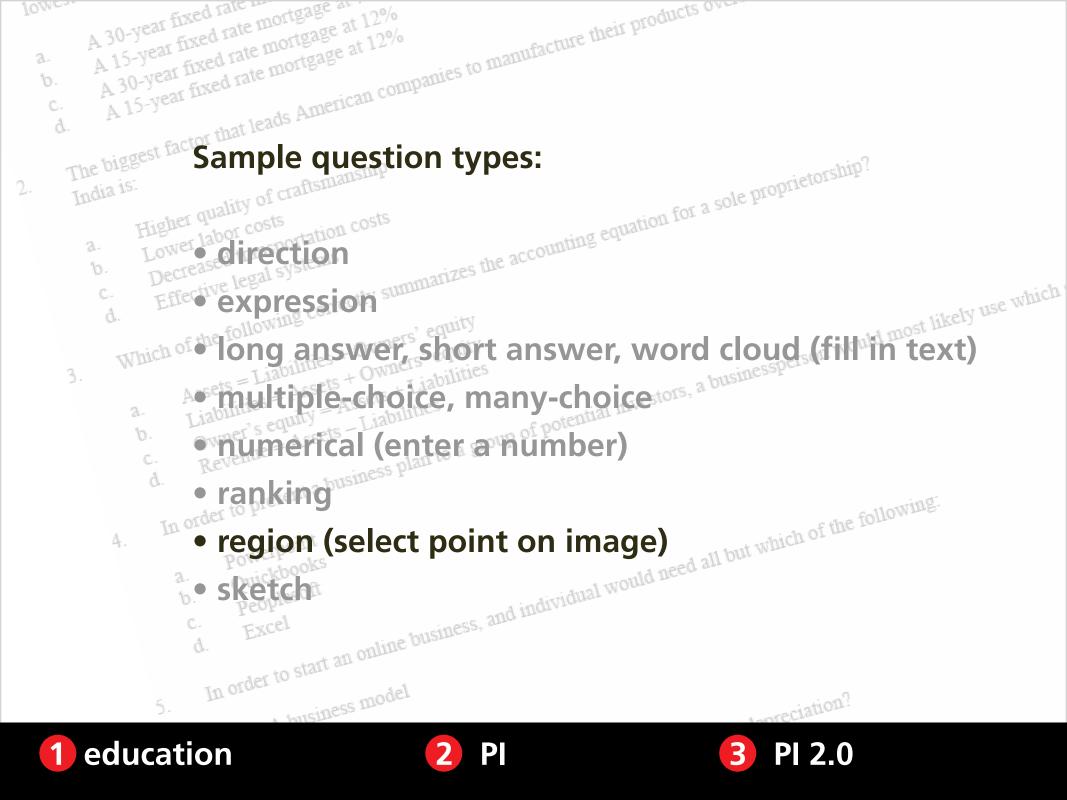


### Eric Mazur | Harvai

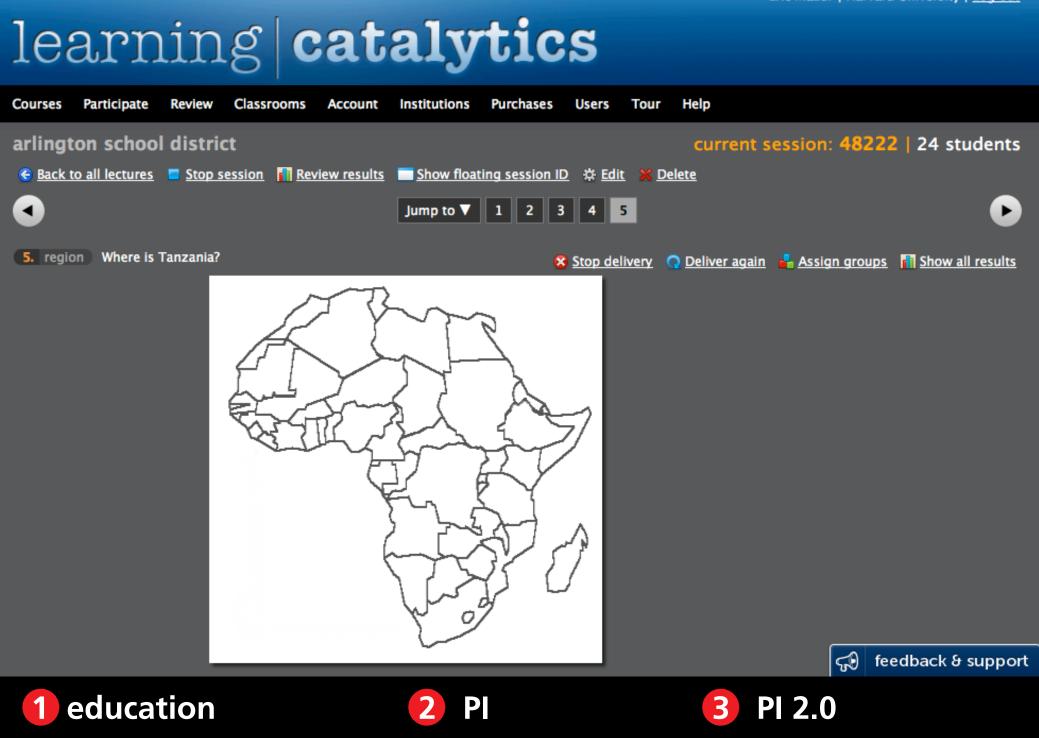
# learning catalytics



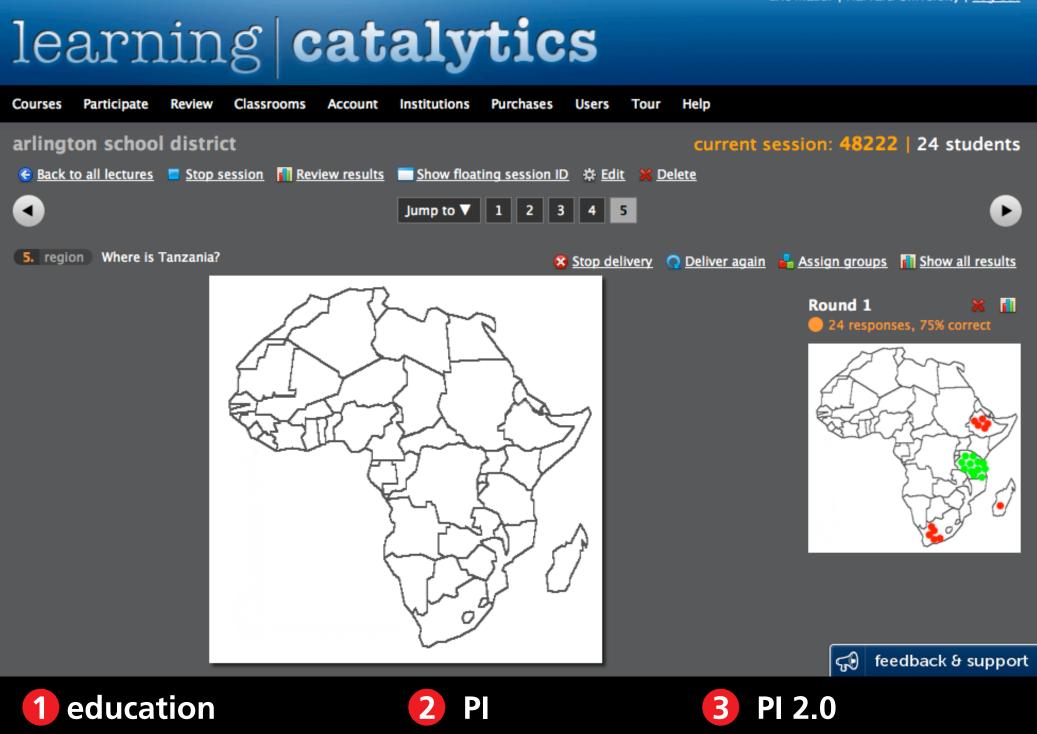


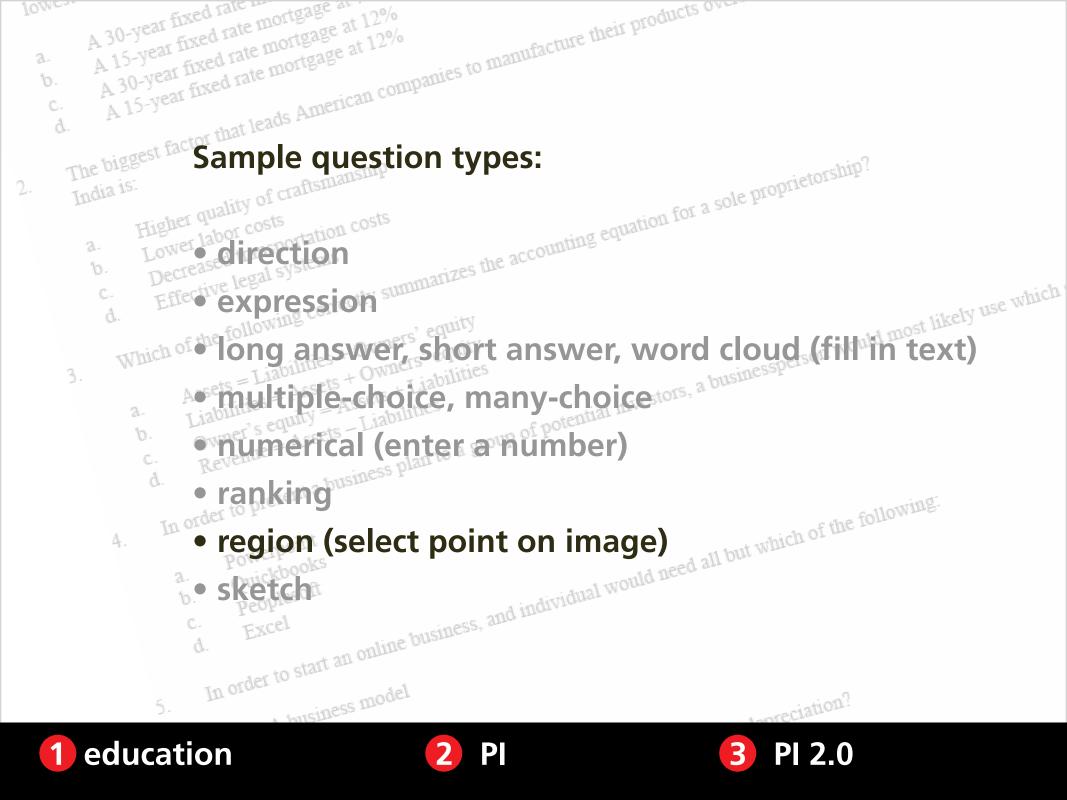


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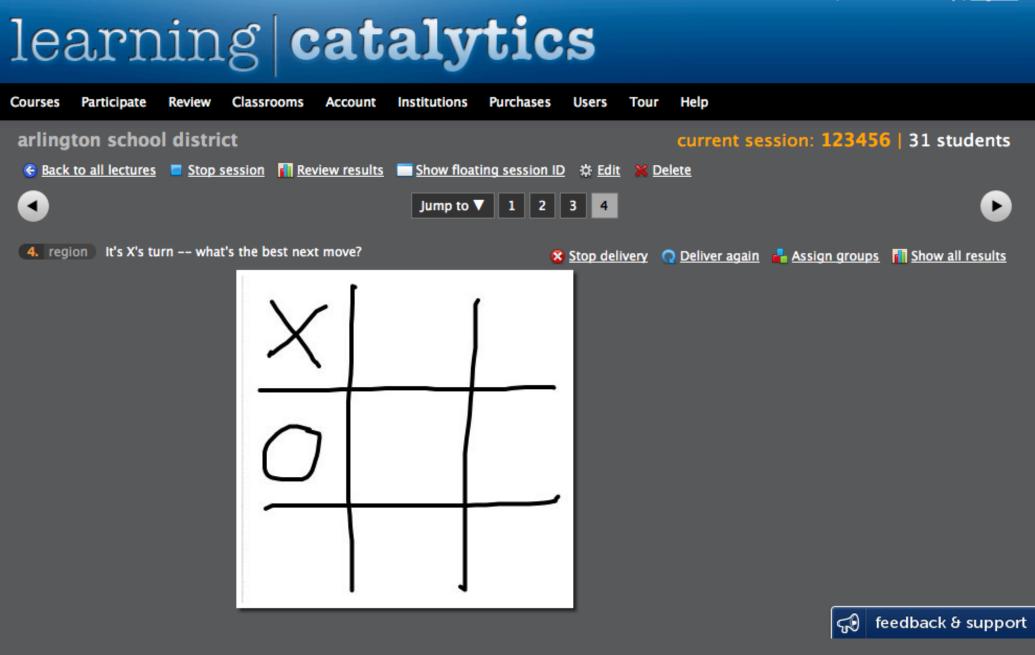


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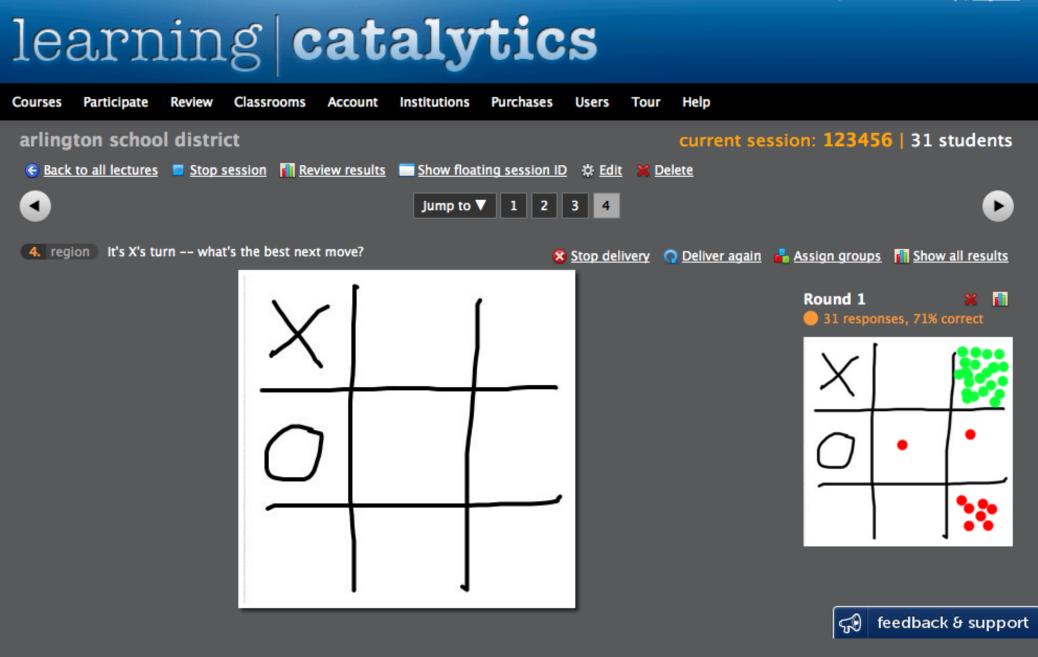








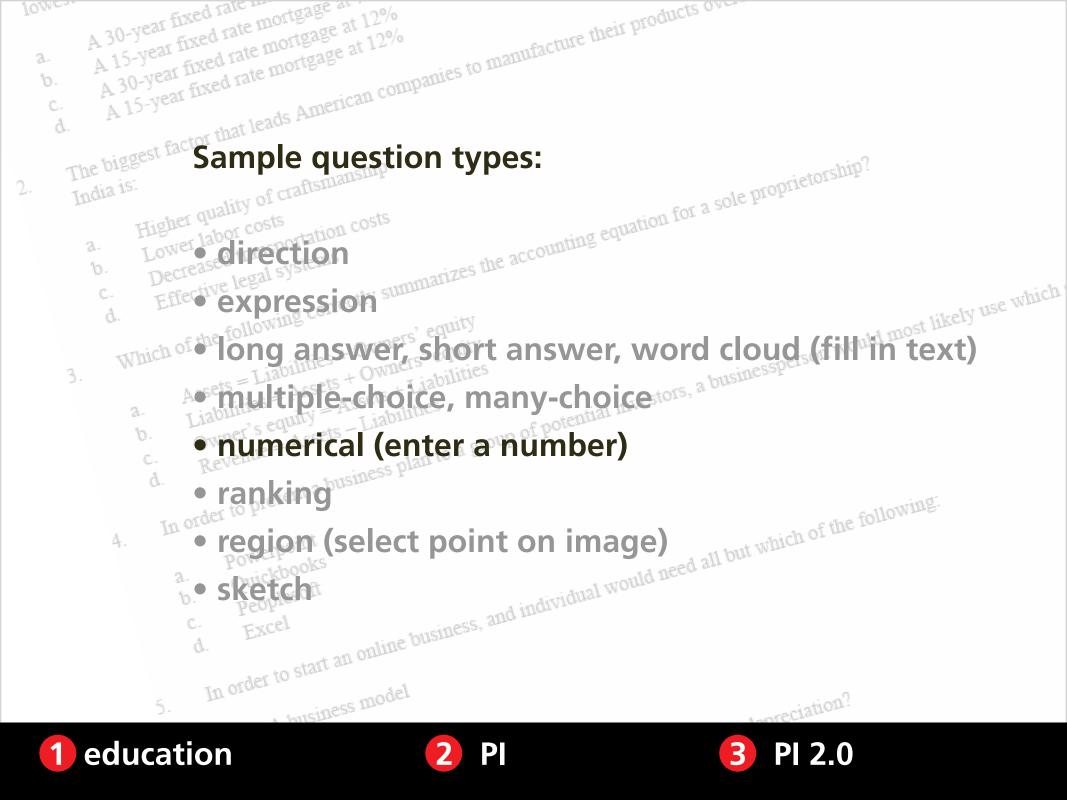
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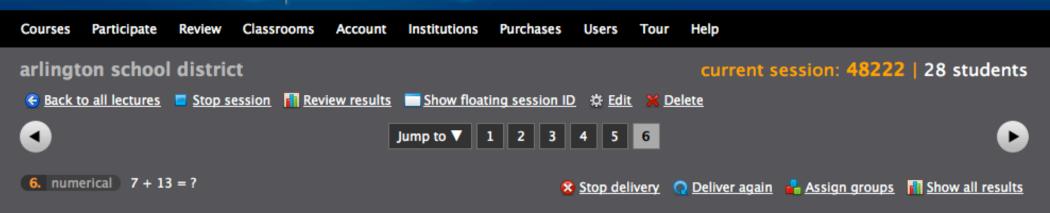






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## learning catalytics



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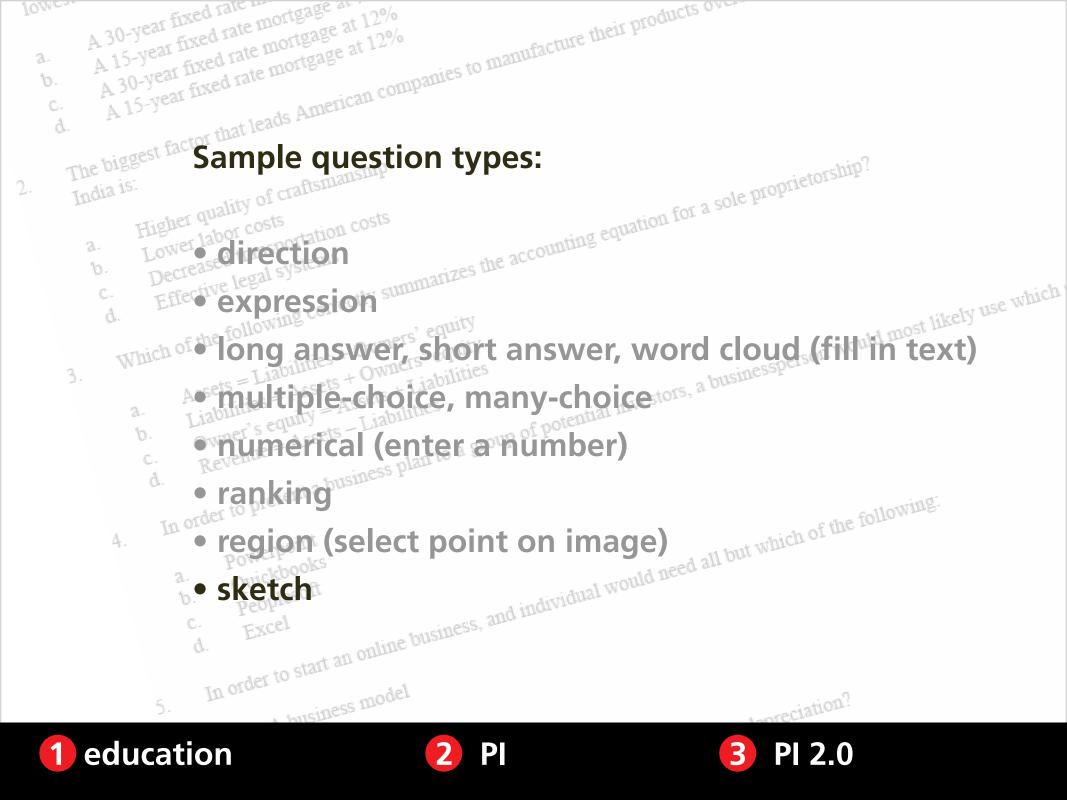
**PI 2.0** 

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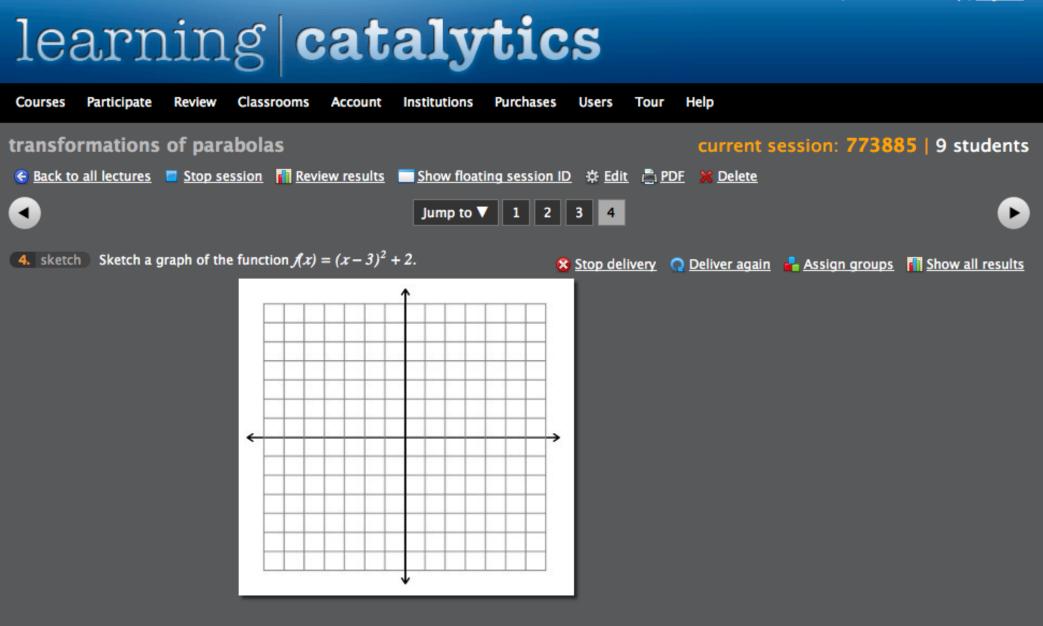


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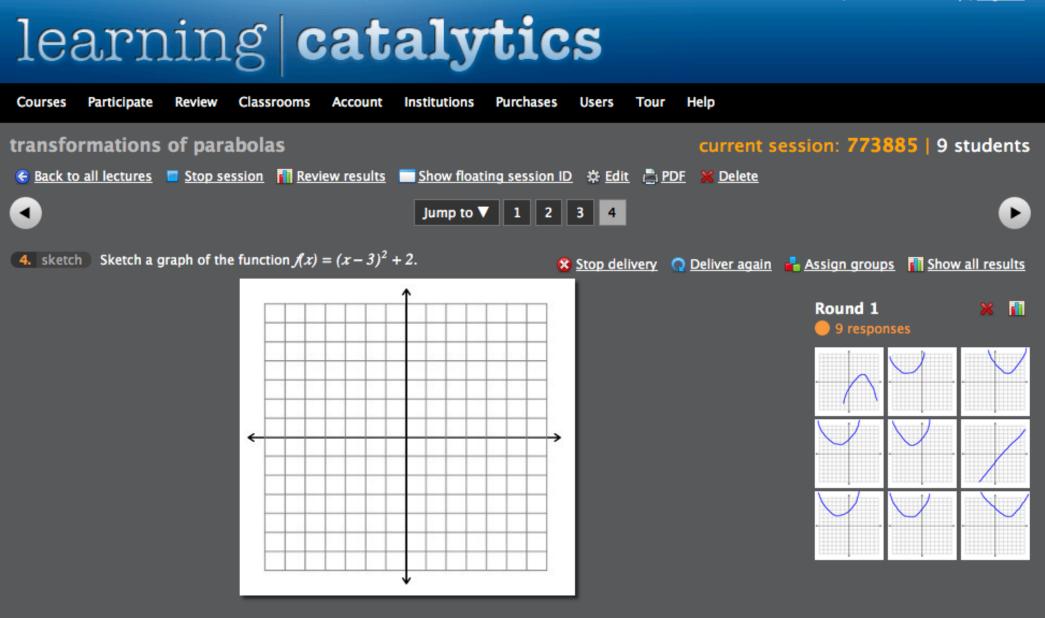








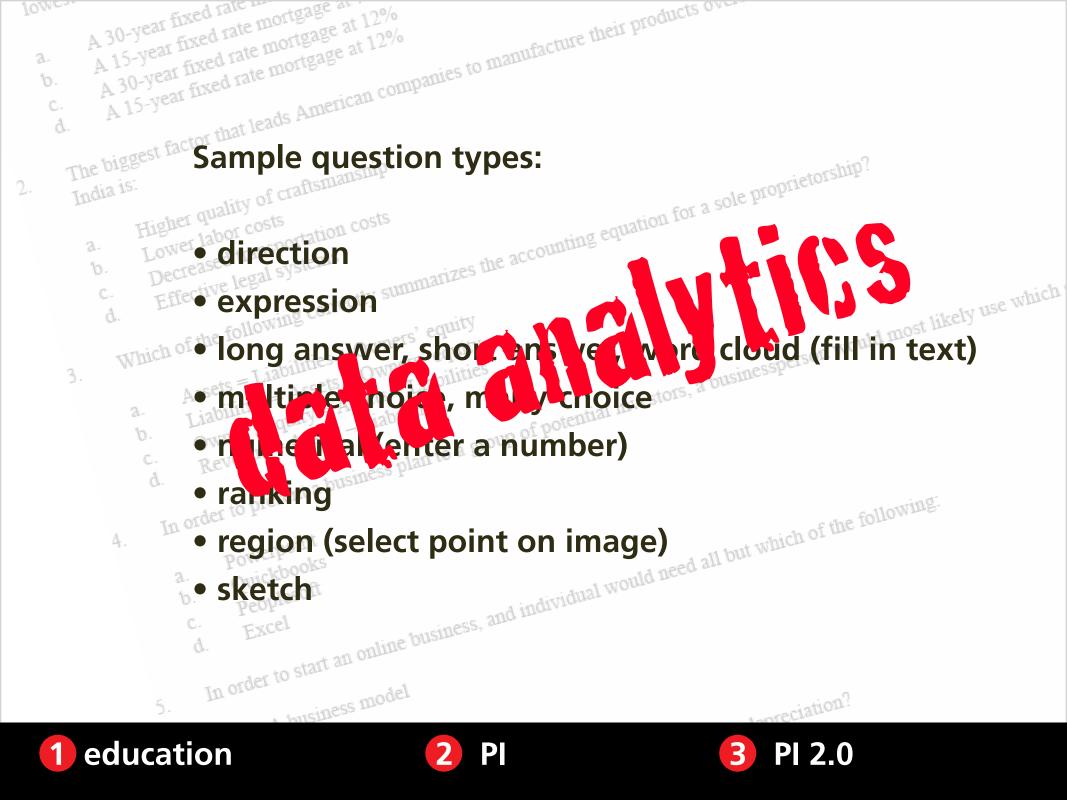
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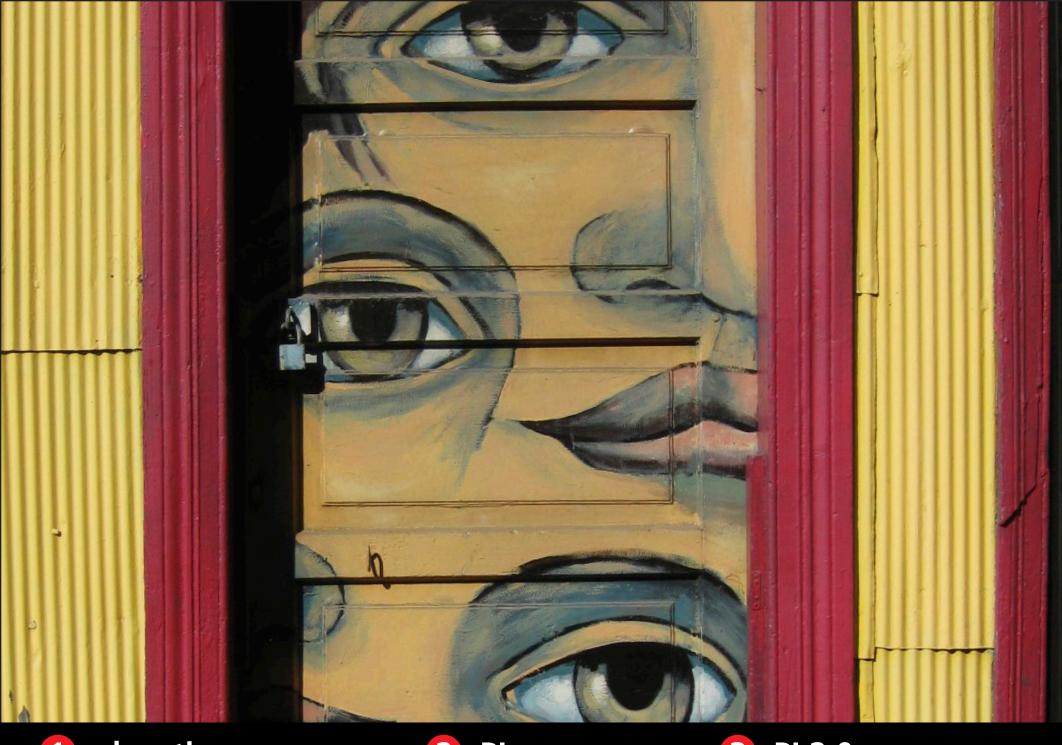


















# the future is here!







**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!







## not technology, but pedagogy matters







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**National Science Foundation** 

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