Introduction to Peer Instruction







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- only last "click" counts
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Quick survey...

Peer Instruction...

- 1. Never heard of it.
- 2. I watched a video of your presentation online.
- 3. I heard someone else present on Peer Instruction.
- 4. I've attended one of your talks on Peer Instruction before.
- 5. I heard you speak about it so often, I could give your talk!



Quick survey...

Peer Instruction...

- 1. Never heard of it.
- 2. Don't use it in my classes, but I'm open to it.
- 3. Considering using it in my classes.
- 4. I have used it in my classes a few times.
- 5. I use it regularly in my classes.



How do we learn?

Think of something you are good at — something that you know you do well.

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Think of something you are good at — something that you know you do well.

How did you become good at this?

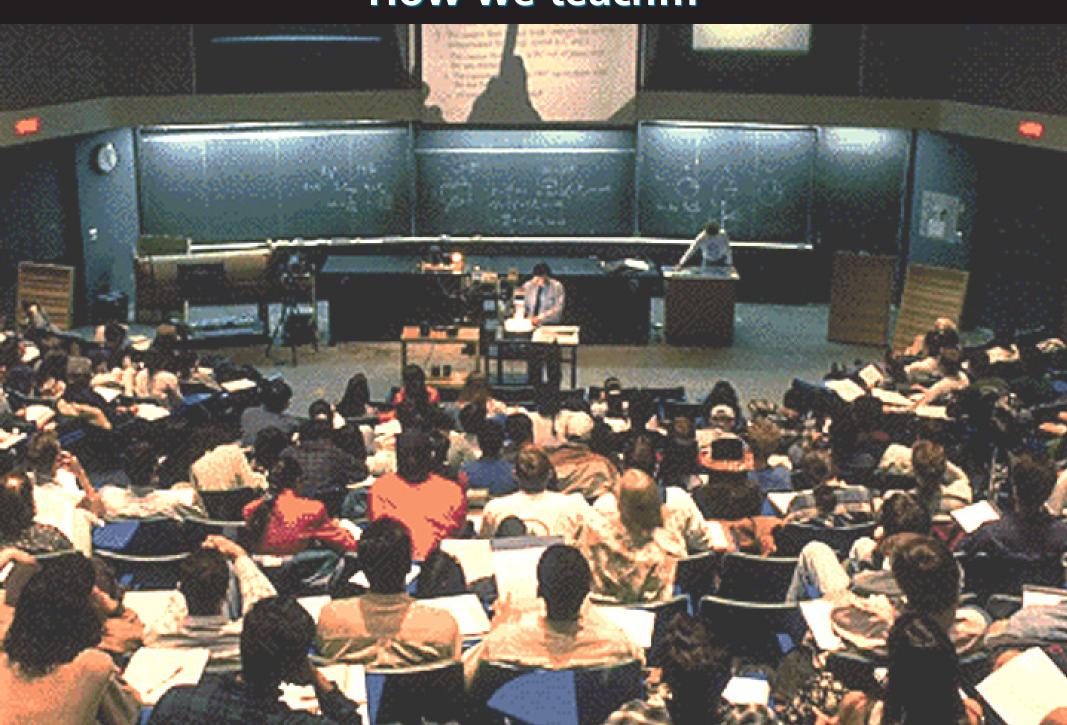
How do we learn?

Became good at it by:

- 1. trial and error
- 2. lectures
- 3. practicing
- 4. apprenticeship
- 5. other

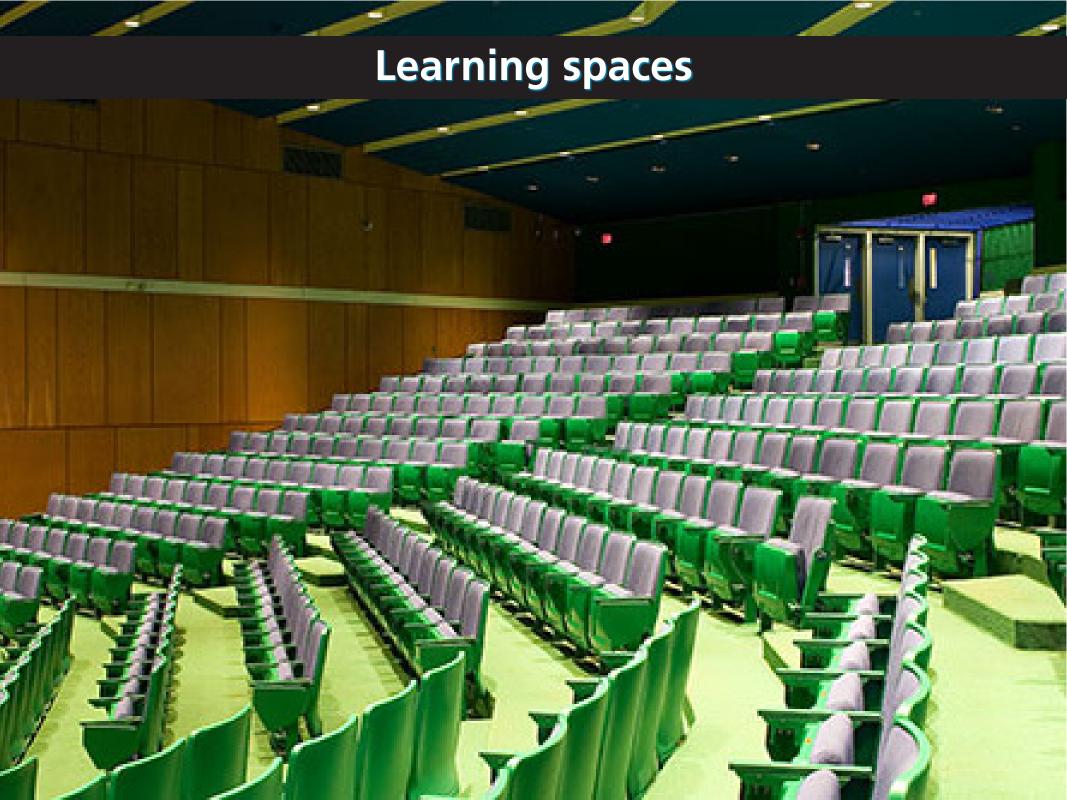


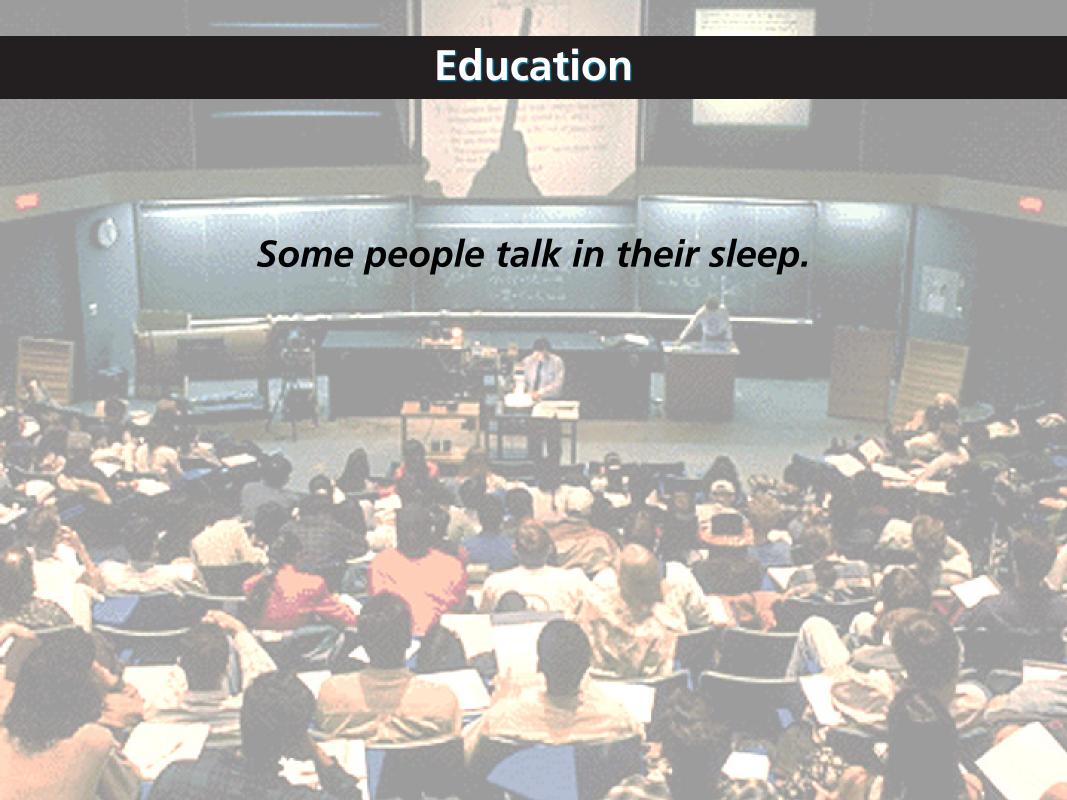
How we teach...

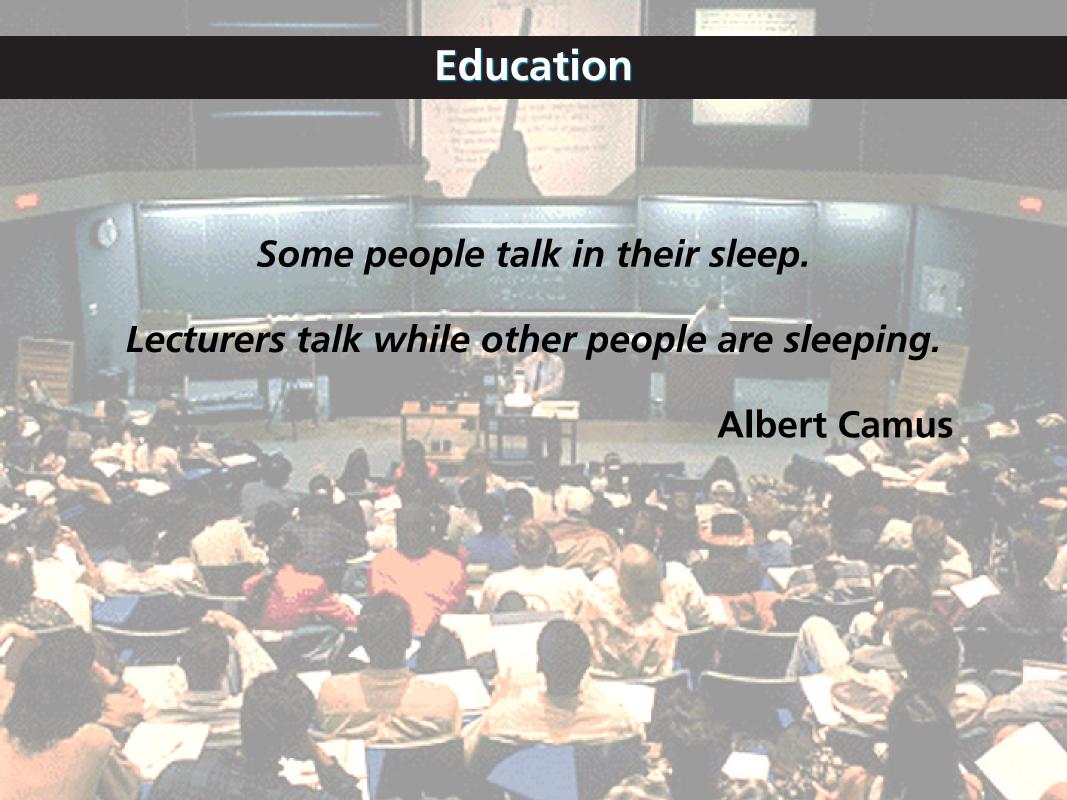


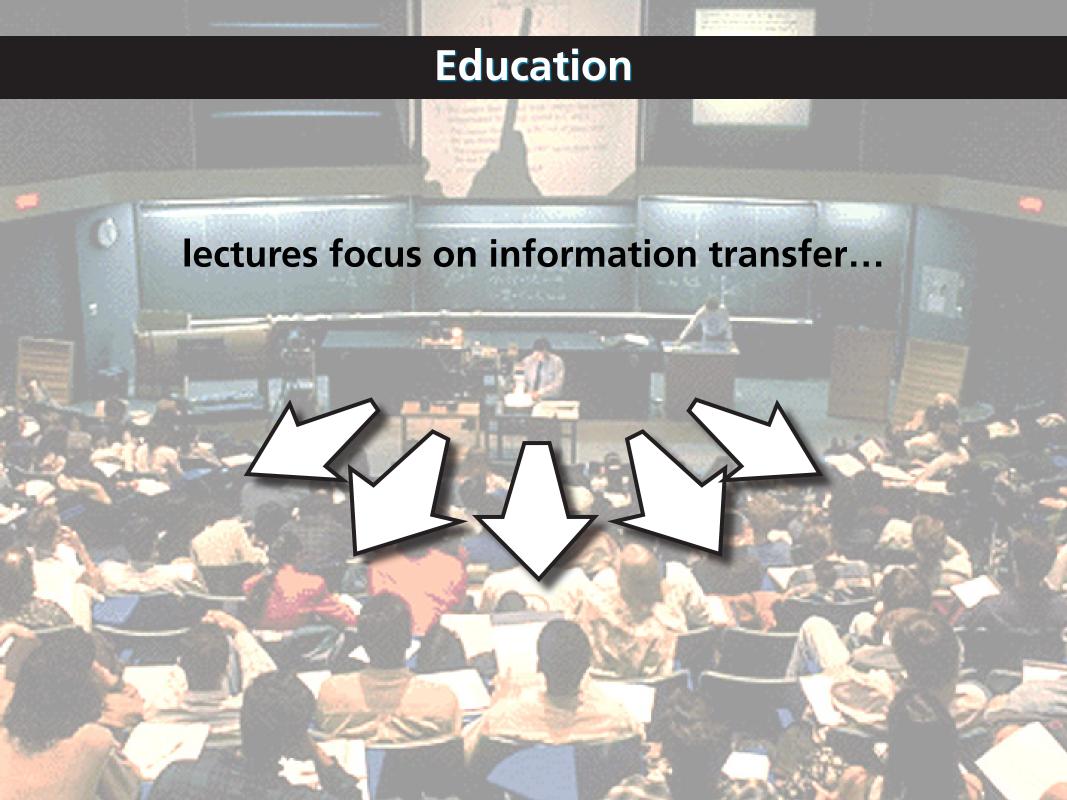




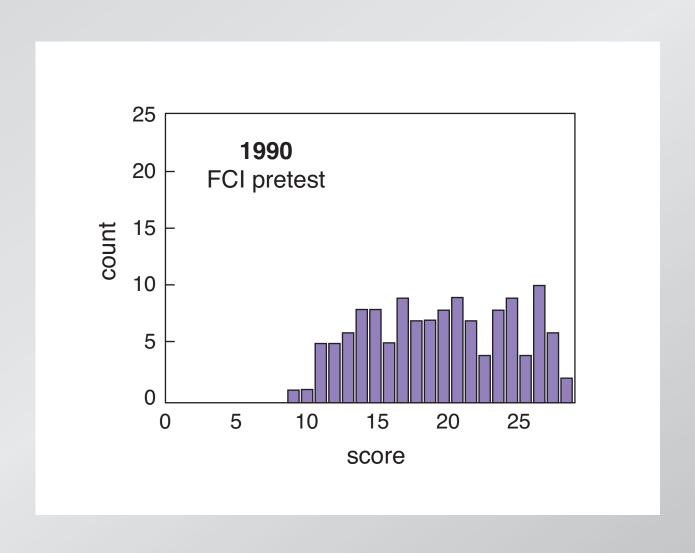




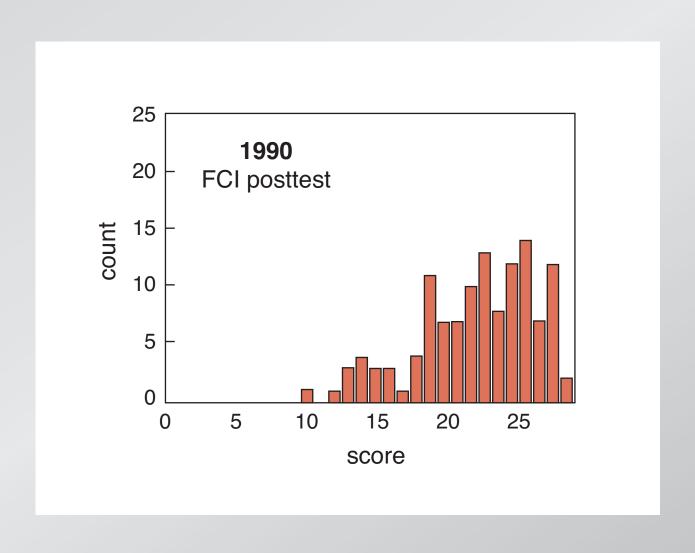




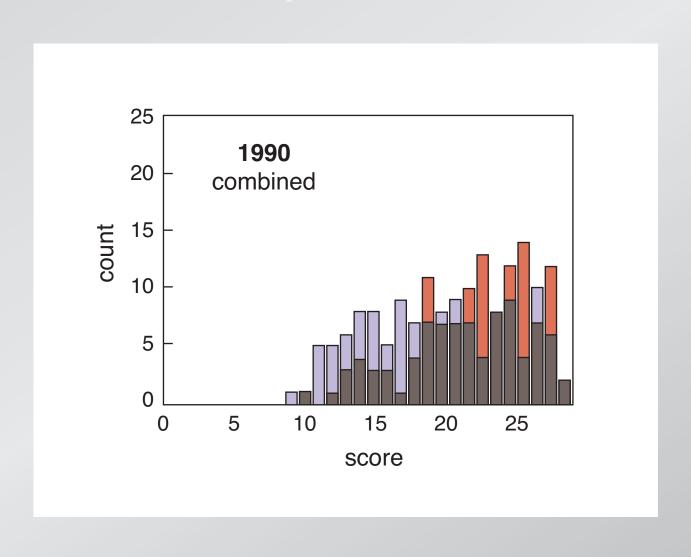
education is not just information transfer



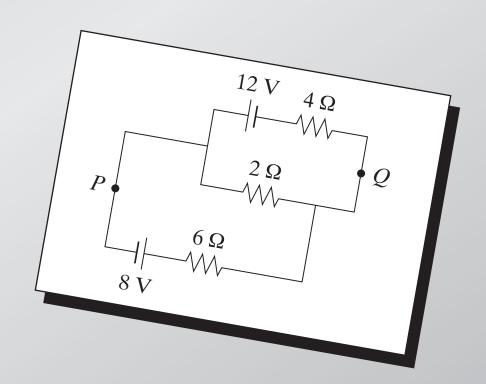
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conventional problems misleading

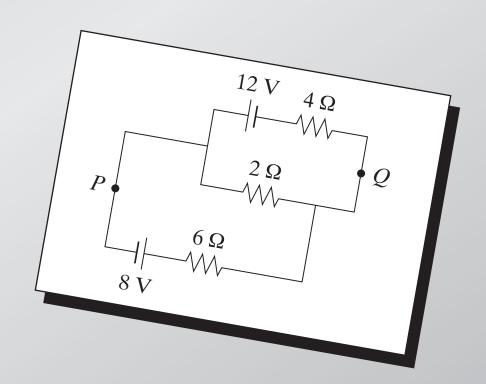


conventional problems misleading

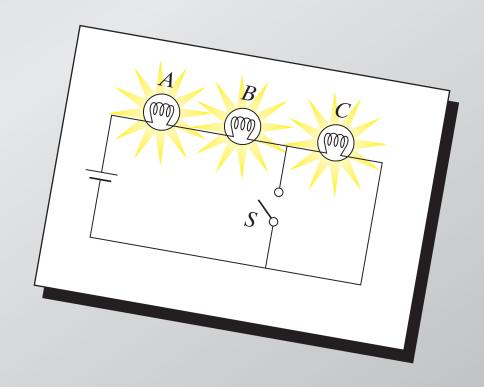
Calculate:

- (a) current in 2- Ω resistor
- (b) potential difference

between P and Q



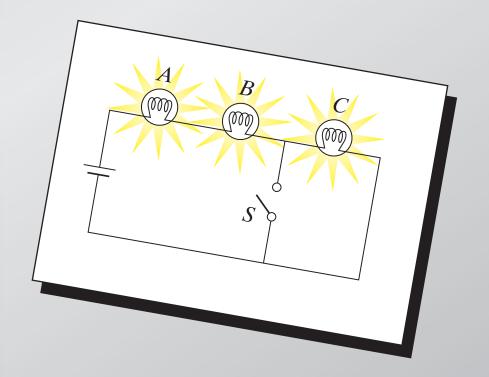
are the basic principles understood?

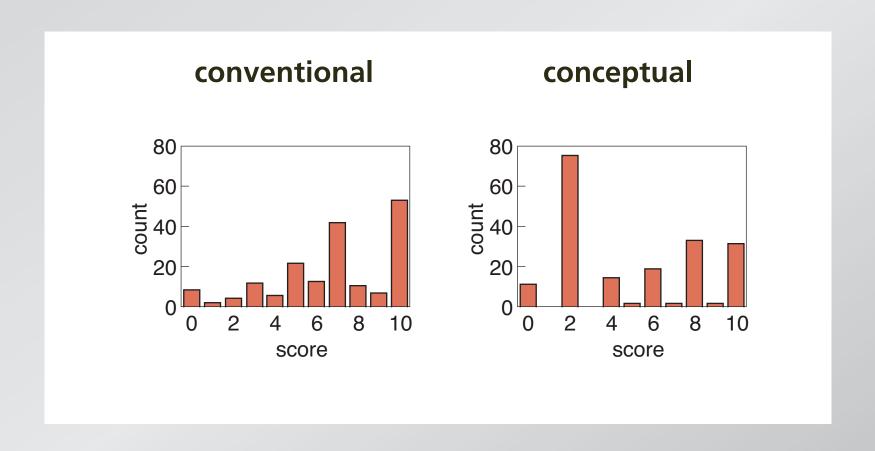


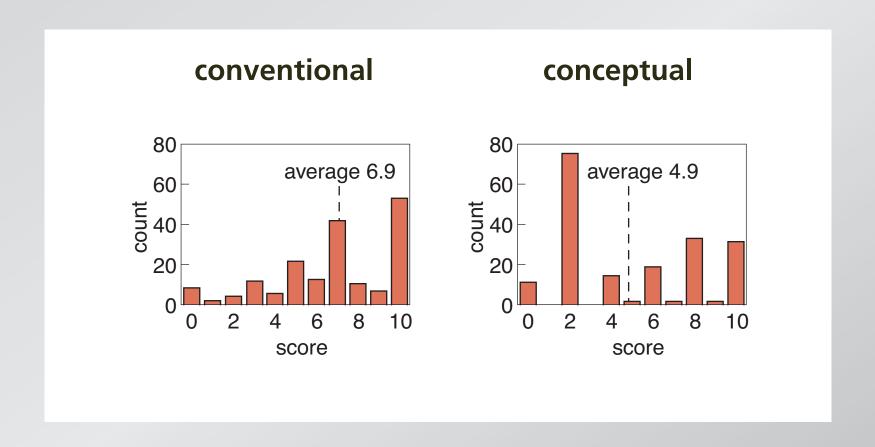
are the basic principles understood?

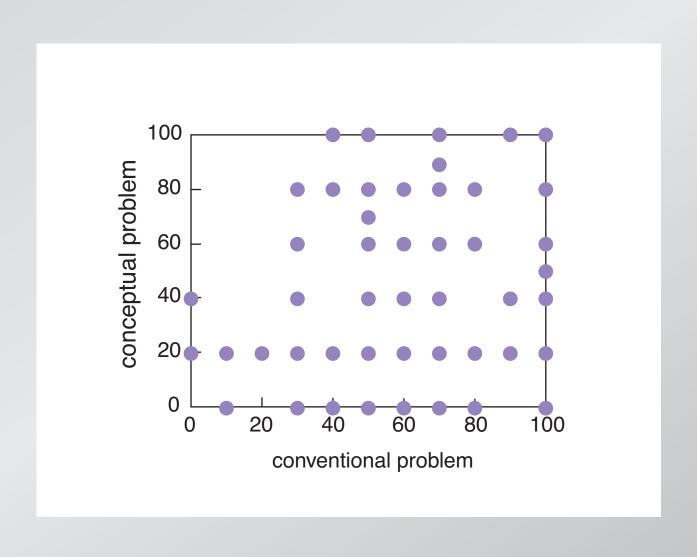
When S is closed, what happens to:

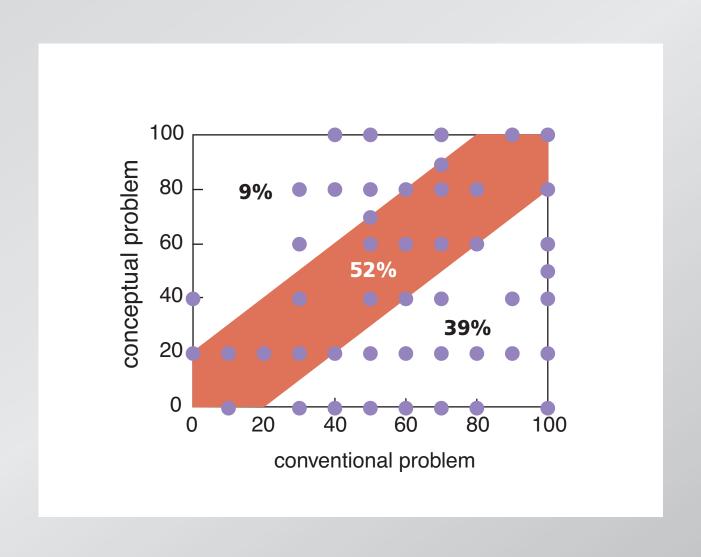
- (a) intensities of A and B?
- (b) intensity of C?
- (c) current through battery?
- (d) potential difference across
 - *A*, *B*, and *C*?
- (e) the total power dissipated?













Peer Instruction

Give students more responsibility for gathering information...

Peer Instruction

Give students more responsibility for gathering information... so we can better help them assimilate it.

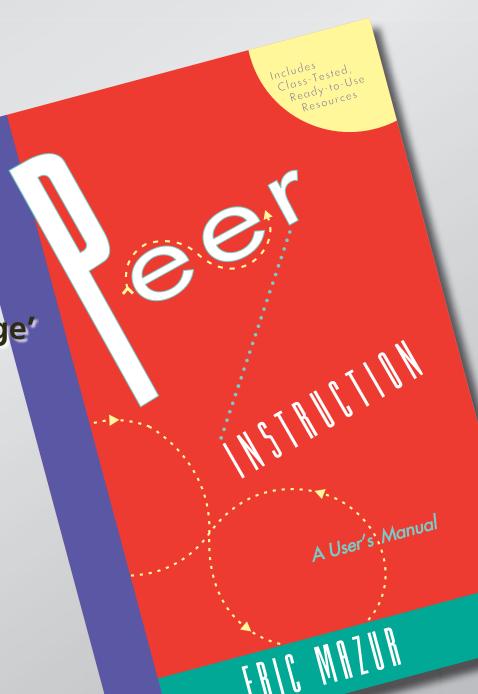
Peer Instruction

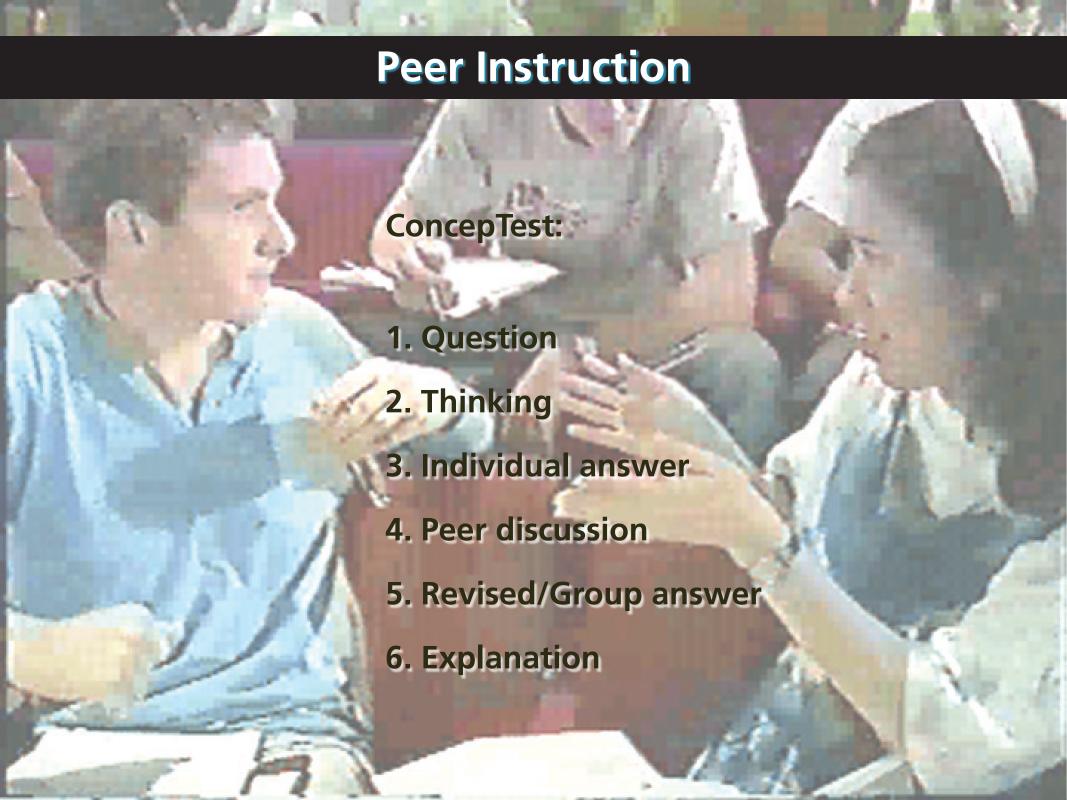
Main features:

pre-class reading

in-class: depth, not 'coverage'

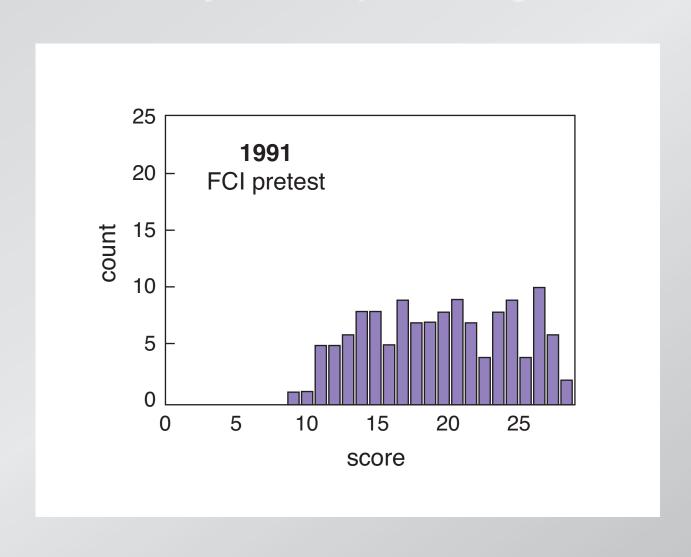
ConcepTests



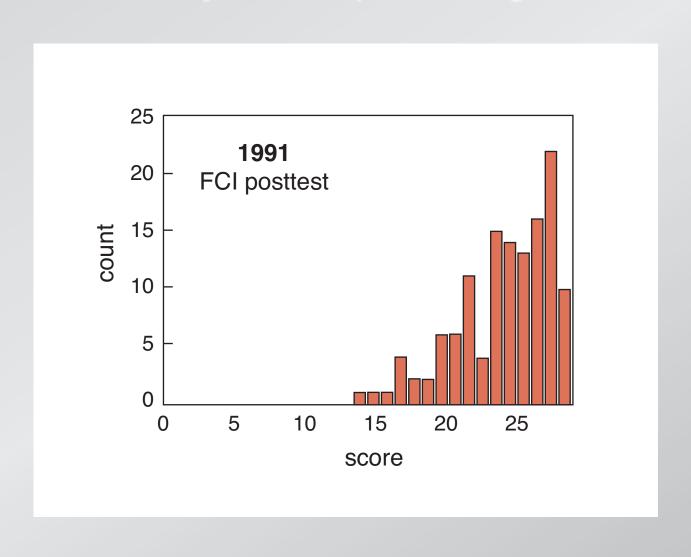


is it any good?

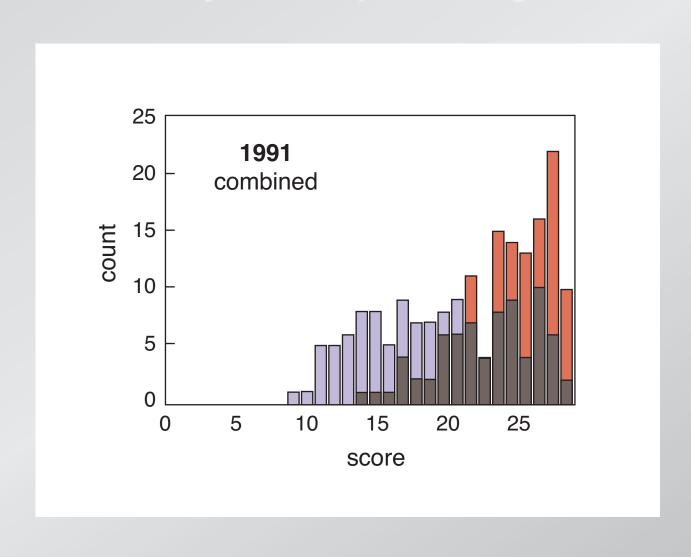
first year of implementing PI



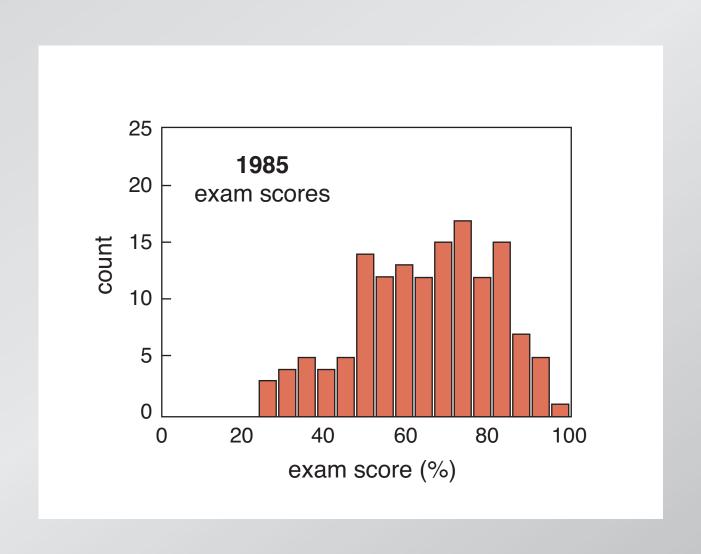
first year of implementing PI

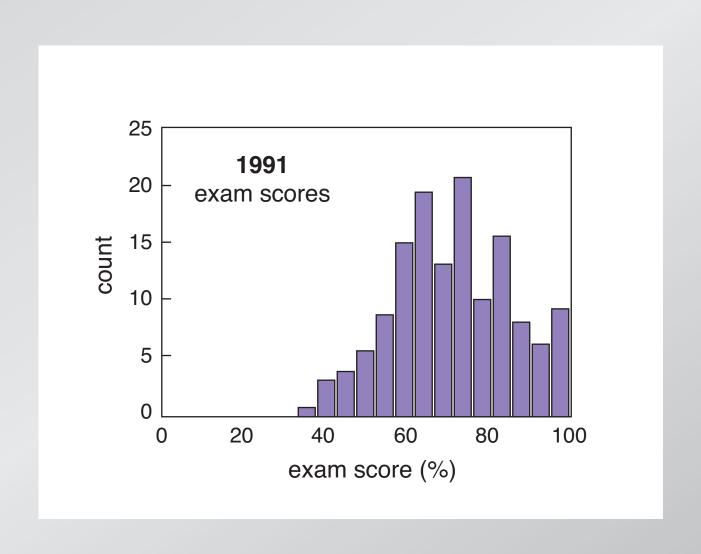


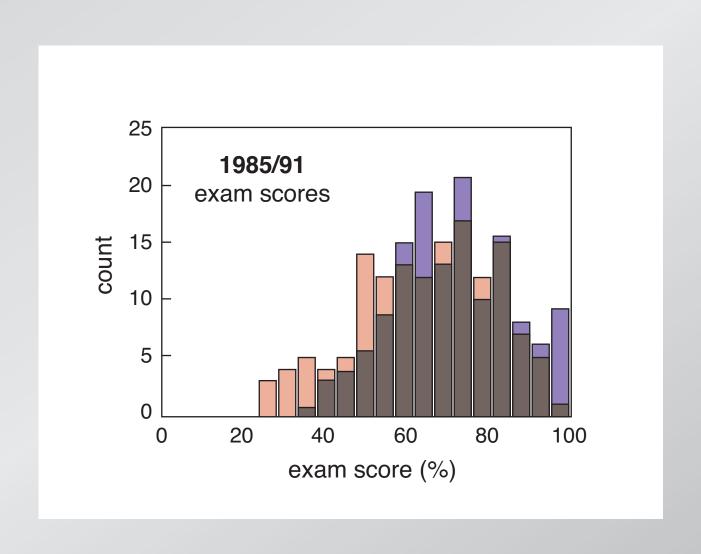
first year of implementing PI



what about problem solving?







Conclusion

So better understanding leads to better problem solving!

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(but "good" problem solving doesn't always indicate understanding!)

Funding:

National Science Foundation

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Dinner Assignment

What is the most burning question you have about Peer Instruction?