Quiz Summary

- Average Score: 35%
- High Score: 90%
- Low Score: 0%
- Standard Deviation: 1.65
- Average Time: 07:56

Question Breakdown

1. How many hours (number) do you anticipate spending each week doing homework for this class?
   - Correct answer: 0%
   - 0% of your students received full credit for this question.

2. Dr. Sojka blows by a speed trap going 45 m/s (100mph). The cop pulls out and can accelerate at 1 m/s\(^2\). Dr. Sojka tries to run, but can go no faster. How long will it take before Dr. Sojka wishes he had bought a Lamborghini? (ie. before the police car overtakes him)
   - Correct answer: 27%
   - 27% of your students correctly answered this question.

   - 10 seconds: 19 respondents
   - 90 seconds: 63 respondents
   - 5 minutes: 6 respondents
   - I don't know: 52 respondents
   - I don't know: 52 respondents
   - No Answer: 3 respondents

Attempts: 230 out of 0

View in SpeedGrader [Link]
How many forces (not including components) are acting on the box as it slides down the ramp?

Correct answer: 31%
31% of your students correctly answered this question.

Discrimination Index: +0.39

- 31 respondents
- 71 respondents
- 117 respondents
- 11 respondents
- 117 respondents
- 20 respondents
- 17 respondents
- 3 respondents

Attempts: 227 out of 231

If a ball’s speed is described by the function \( vt^3 + v_0 \), which of the following equations describes its acceleration?

Correct answer: 69%
69% of your students correctly answered this question.

Discrimination Index: +0.43

- 159 respondents
- 4 respondents
- 11 respondents
- 17 respondents
- 21 respondents
- 31 respondents
- 4 respondents
- 12 respondents

Attempts: 223 out of 231

If a ball is shot from a cannon at 10 m/s at an angle of 30° from the ground, what is its acceleration in the x-direction?

Correct answer: 22%
22% of your students correctly answered this question.

Discrimination Index: +0.52

- 13 respondents
- 31 respondents
- 50 respondents
- 22 respondents
Pre-Quiz: Statistics

Attempts: 224 out of 231

The sum of the forces acting on an object in equilibrium is ______ and its velocity is ______.

- **Correct answer**
  - 84% of your students correctly answered this question.
  - Discrimination Index: +0.35

- Strong, Slow
  - 0%
  - 1 respondent

- Negative, Zero
  - 3%
  - 6 respondents

- I don't know
  - 7%
  - 16 respondents

- Zero, Constant
  - 84%
  - 193 respondents

- Weak, Zero
  - 3%
  - 8 respondents

- No Answer
  - 3%
  - 7 respondents

Attempts: 223 out of 231

Hooke’s Law says that the restoring force of a spring is

- **Correct answer**
  - 25% of your students correctly answered this question.
  - Discrimination Index: +0.51

- No answer text provided.
  - 23%
  - 54 respondents

- No answer text provided.
  - 5%
  - 12 respondents

- I don't know
  - 40%
  - 93 respondents

- No answer text provided.
  - 25%
  - 58 respondents

- No answer text provided.
  - 3%
  - 6 respondents

- No Answer
  - 3%
  - 8 respondents

Attempts: 222 out of 231

Object A is attracted gravitationally to object B. Which action(s) would result in a doubling of the gravitational force?

- **Correct answer**
  - 35% of your students correctly answered this question.
  - Discrimination Index: +0.37

- Doubling the mass of object A
  - 35%
  - 80 respondents

- Place object A half as far away
  - 22%
  - 51 respondents

- No answer text provided.
  - 35%
  - 80 respondents

- No answer text provided.
  - 25%
  - 53 respondents

- No answer text provided.
  - 3%
  - 6 respondents

- I don't know
  - 12%
  - 26 respondents

- No Answer
  - 3%
  - 8 respondents
A 100 cm$^3$ cube of aluminum, (density 2700 kg/m$^3$) is fully immersed in a beaker of ethyl alcohol (density 790 kg/m$^3$), and suspended motionless by a string. What is the tension in the string?

Correct answer

9%

9% of your students correctly answered this question.

0.194 N

4 respondents

1.87 N

20 respondents

190 N

7 respondents

340 N

24 respondents

I don't know

166 respondents

No Answer

10 respondents

At what temperature does the numerical value of °F match the numerical value in °C?

Correct answer

48%

48% of your students correctly answered this question.

32 °F

43 respondents

0 °F

11 respondents

-20 °F

55 respondents

-40 °F

112 respondents

No Answer

10 respondents