

## Quiz Summary

Section Filter ▾

Student Analysis

Item Analysis

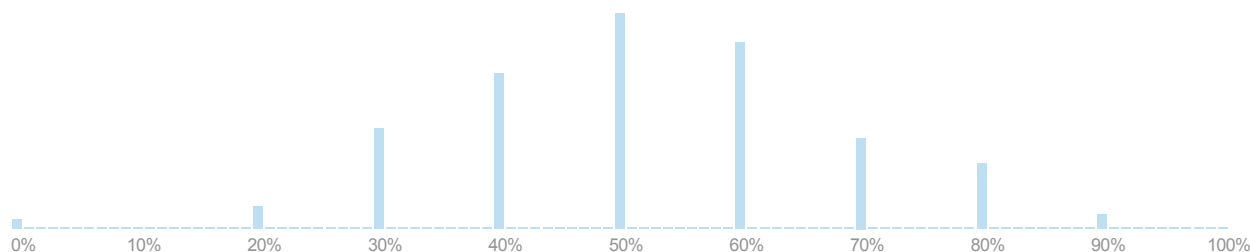
Average Score  
**52%**

High Score  
**90%**

Low Score  
**0%**

Standard Deviation  
**1.63**

Average Time  
**08:41**



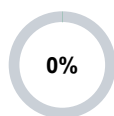
## Question Breakdown



Attempts: 198 out of 198



How many hours (number) did you spend each week doing homework for this class?



**Correct answer**  
0% of your students correctly answered this question.



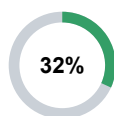
0% Whatever you say

100% Something Else  
198 respondents

Attempts: 192 out of 198



Dr. Sojka blows by a speed trap going 45 m/s (100mph). The cop pulls out and can accelerate at  $1 \frac{m}{s^2}$ . Dr. Sojka tries to run, but can go no faster. How long will it take before Dr. Sojka wishes he had bought a Lamborghini? (i.e. before the police car overtakes him)



**Correct answer**  
32% of your students correctly answered this question.



9% 10 seconds  
17 respondents

51% 45 seconds  
100 respondents

32% 90 seconds  
63 respondents

2% 5 minutes  
4 respondents

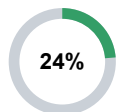
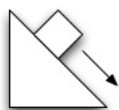
4% I don't know  
8 respondents

3% No Answer  
6 respondents

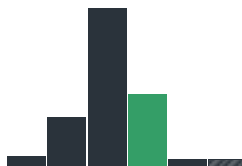
Attempts: 196 out of 198



How many forces (not including components) are acting on the box as it slides down the ramp?



**Correct answer**  
24% of your students correctly answered this question.



**+0.11** Discrimination Index



2% 1  
4 respondents

16% 2  
31 respondents

57% 3  
112 respondents

24% 4  
47 respondents

1% I don't know  
2 respondents

1% No Answer  
2 respondents

Attempts: 195 out of 198

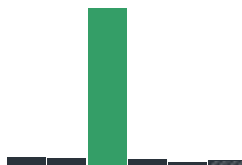


If a ball's speed is described by the function  $Bt^3 + v_0$ , which of the following equations describes its acceleration?

- a)  $\frac{1}{4}Bt^4 + v_0 + a_0$
- b)  $Bt^2$
- c)  $3Bt^2$
- d)  $3Bt^2 + v_0$



**Correct answer**  
90% of your students correctly answered this question.



**+0.32** Discrimination Index



3% a)  
6 respondents

3% b)  
5 respondents

90% c)  
179 respondents

2% d)  
4 respondents

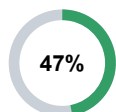
1% I don't know  
1 respondents

2% No Answer  
3 respondents

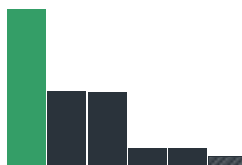
Attempts: 194 out of 198



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



**Correct answer**  
47% of your students correctly answered this question.



**+0.58** Discrimination Index



<p>0 m/s/s 93 respondents</p> <p>47</p> <p>21% 9.8 m/s/s 41 respondents</p> <p>5% I don't know 9 respondents</p>	<p>4 m/s/s 42 respondents</p> <p>21</p> <p>5% 19.6 m/s/s 9 respondents</p> <p>2% No Answer 4 respondents</p>
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Attempts: 196 out of 198

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

**95%** Correct answer  
95% of your students correctly answered this question.

**+0.29** Discrimination Index

<p>1% Strong, Slow 1 respondents</p> <p>2% Negative, Zero 3 respondents</p> <p>1% I don't know 1 respondents</p>	<p>95% Zero, Constant 189 respondents</p> <p>1% Weak, Zero 2 respondents</p> <p>1% No Answer 2 respondents</p>
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Attempts: 196 out of 198

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

a)  $\frac{1}{2}kx^2$   
b)  $-kx$   
c)  $\sin^2(kx)$   
d)  $\frac{1}{2}mv^2$

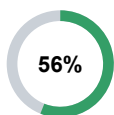
**71%** Correct answer  
71% of your students correctly answered this question.

**+0.48** Discrimination Index

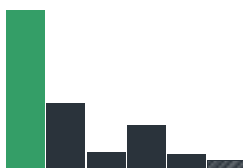
<p>27% a) 53 respondents</p> <p>0% c)</p> <p>1% I don't know 1 respondents</p>	<p>71% b) 141 respondents</p> <p>1% d) 1 respondents</p> <p>1% No Answer 2 respondents</p>
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Attempts: 195 out of 198

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



**Correct answer**  
56% of your students correctly answered this question.



56% Doubling the mass of object A  
111 respondents

21% Place object A half as far away  
42 respondents

4% Double object A's initial speed toward object B  
8 respondents

14% Quadruple the density of object B  
27 respondents

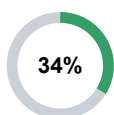
4% I don't know  
7 respondents

2% No Answer  
3 respondents

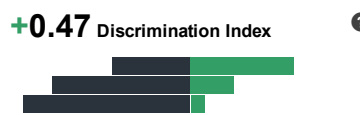
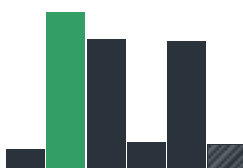
Attempts: 189 out of 198



A  $100 \text{ cm}^3$  cube of aluminum (density  $2700 \frac{\text{kg}}{\text{m}^3}$ ) is fully immersed in a beaker of ethyl alcohol (density  $790 \frac{\text{kg}}{\text{m}^3}$ ), and suspended motionless by a string. What is the tension in the string?



**Correct answer**  
34% of your students correctly answered this question.



4% 0.194 N  
7 respondents

34% 1.87 N  
67 respondents

27% 190 N  
53 respondents

5% 340 N  
10 respondents

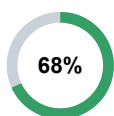
26% I don't know  
52 respondents

5% No Answer  
9 respondents

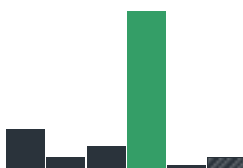
Attempts: 191 out of 198



At what temperature does the numerical value of  $^{\circ}\text{F}$  match the numerical value in  $^{\circ}\text{C}$ ?



**Correct answer**  
68% of your students correctly answered this question.



16% 32 F  
31 respondents

4% 0 F  
7 respondents

9% -20 F  
17 respondents

68% -40 F  
135 respondents

1% I don't know  
1 respondents

4% No Answer  
7 respondents