



Optometry Admission

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QUESTION 1

A bowling ball with a mass of 4 kilograms moving at a speed of 10 meters per second hits a stationary 1 kg bowling ball in a head-on elastic collision. What is the speed of the stationary ball after the collision?

A. 0 m/s

B. 10 m/s

C. Less than 10 m/s, but not 0 m/s

D. More than 10 m/s

Correct Answer: D

Since this is a head-on elastic collision, you could use conservation of kinetic energy and momentum to actually solve this problem. However, in this case, you only need to think through the answers to arrive at a correct conclusion. Clearly the ball after it\\'s struck won\\'t be going 0 m/s. And since this is an elastic collision, and it is hit by a much larger ball, it must be going faster than the larger ball was originally moving. Therefore, the ball will be moving at more than 10 m/s. If this were an inelastic collision where the balls stuck together, the ball would final velocity would be less than 10 m/s.

QUESTION 2

A car\\'s velocity history is displayed in the graph below. What is the displacement of the car from 0 s to 10 s?





E. 42

Correct Answer: C

When giving an acceleration graph (velocity over time), displacement is simply the area under the graph (or above the graph if the line extends into the negative y-axis, which in this case, it does not). The best way to approach this problem is to break the line graph apart into squares and right triangles to determine the area of each component and add them up for the total area (displacement).



You can break this into 7 different sections that you can use to calculate the area easily:

#1 = 1/2bh = (1/2) ? ?2 = 1 #2 = lw = 2 ?4 = 8 #3 = lw = 2 ?2 = 4 #4 = 1/2bh = (1/2) ?2 ?3 = 3 #5 = lw = 5 ?2 = 10 #6 = 1/2bh = (1/2) ?1 ?5 = 2.5

Adding the areas up: 1 + 8 + 4 + 3 + 10 + 2.5 = 28.5

QUESTION 3

If 8 people can eat 6 bags of chips, how many people will it take to eat 15 bags of chips?

A. 22

B. 18

C. 16

D. 20

Correct Answer: D

Use a proportion to solve the problem. 8/6 = x/15, 60 = 3x, x = 20.



QUESTION 4

This figure represents the score range for 520 students who took the OAT. How many students scored 360 or more points?



QUESTION 5

A ray of light traveling in the air strikes water (n = 1.33). In which direction does the light bend?



- A. Towards the normal.
- B. Away from the normal.
- C. It will not bend.
- D. It depends on the angle of refraction.
- E. Need more information to solve this problem.

Correct Answer: A

Since light is going from a lower index of refraction (n) to a higher index of refraction, it will always bends towards the normal.

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