Construction and Industry

EEI-TECH
EEI Technician Occupations Selection System Exam

For More Information – Visit link below:
https://www.examsempire.com/

Product Version

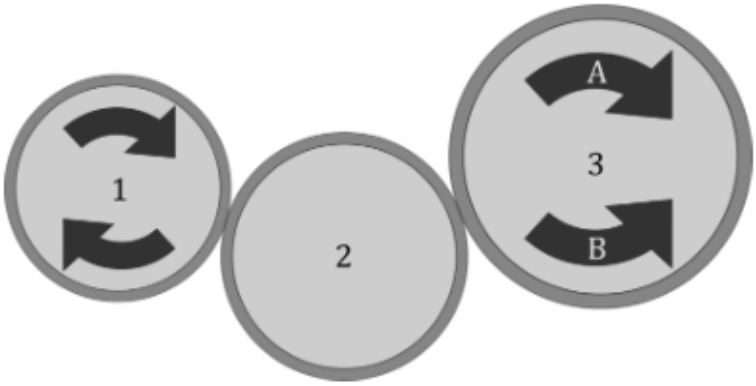
1. **Up to Date products, reliable and verified.**
2. **Questions and Answers in PDF Format.**

https://examsempire.com/

Latest Version: 6.0

Question: 1

The first of three touching rollers is rotating clockwise. What direction is the final roller spinning? (If the roller will not spin, mark C.)

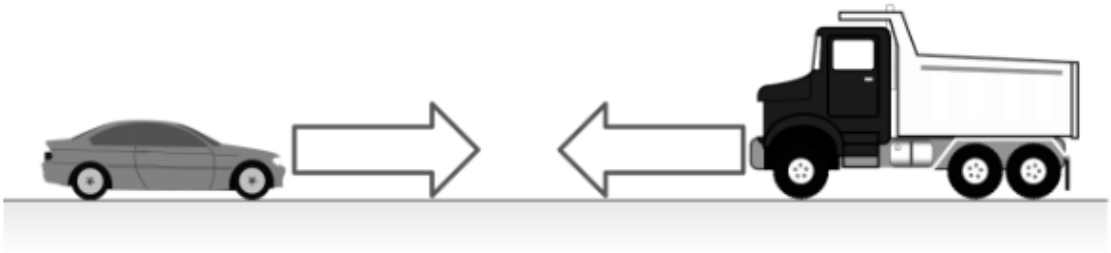


Answer: A

Explanation:
In rollers, adjacent rollers spin in opposite directions. Thus, roller 2 spins counter-clockwise.
Finally, roller 3 spins in a clockwise direction.

Question: 2

A light car and a heavy truck drive towards each other with the same velocity. When they crash, will they travel towards the left (A), the right (B), or will they not move at all (C).

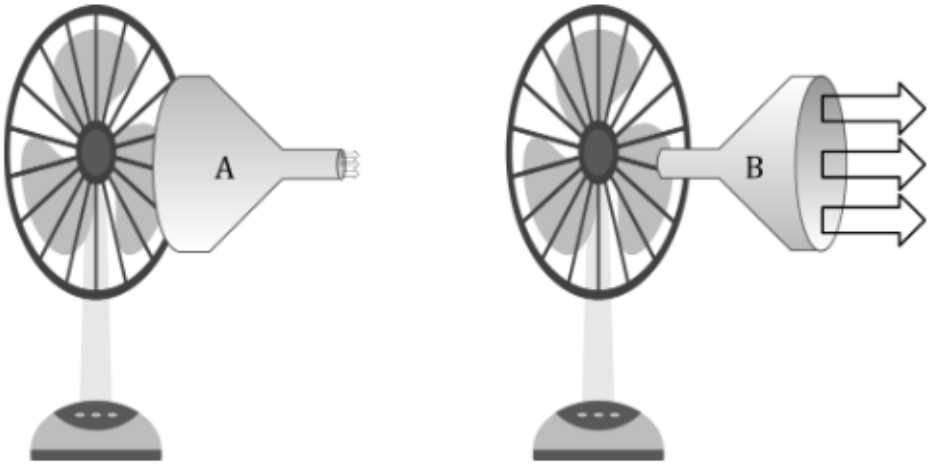


Answer: A

Explanation:
Because the truck is heavier, the car will not be able to stop the truck. Thus, they will move to the left.

Question: 3

Two identical funnels are placed in front of a fan. Which funnel will provide the greatest air speed at its exit? (If equal, mark C.)

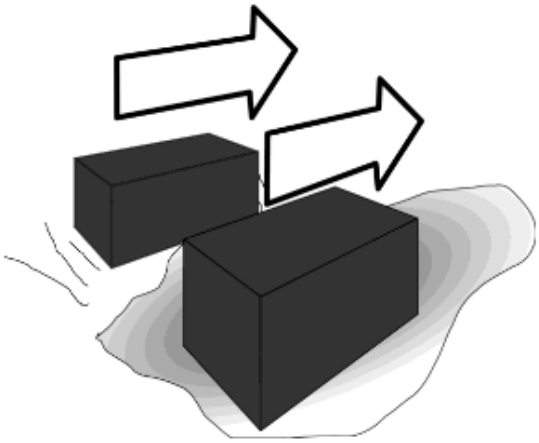


Answer: A

Explanation:
The same amount of air entering the funnel has to exit. The air in funnel A has to exit faster to allow for the great amount of moving air.

Question: 4

Two identical bricks are pushed over ice and dirt. Will the brick on ice require more force to push (A), less force to push (B), or the same force to push (C) as the brick on the dirt?



Answer: B

Explanation:
The friction acting on the brick on ice will be less than the friction on the other brick. Thus, the brick on ice will require less force to push.

Question: 5

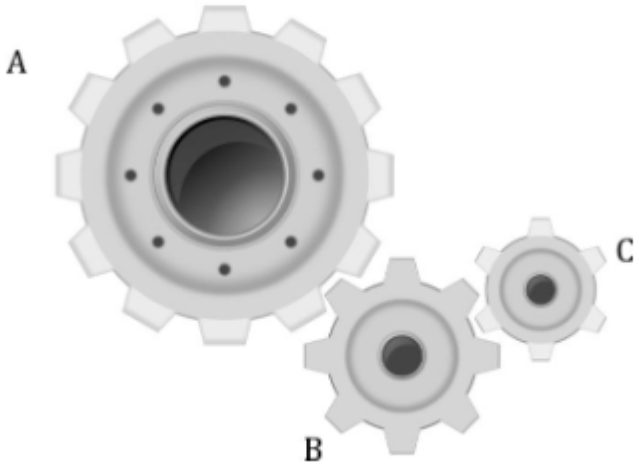
A plunger is pressed down in a closed tube. Will the pressure inside below the plunger increase (A), decrease (B), or stay the same (C)?

Answer: A

Explanation:
Decreasing the volume of space for a set amount of gas increases the pressure inside.

Question: 6

In this gear train, which gear is rotating with the highest number of revolutions per minute?

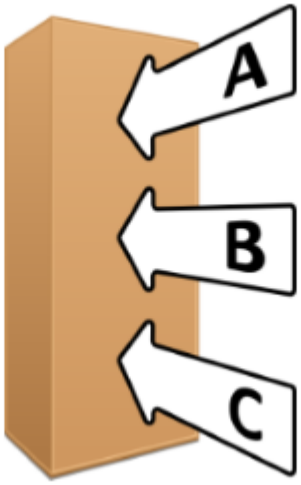


Answer: C

Explanation:
When two cogs mesh, the cog with the least number of teeth spins faster. Thus, cog B spins faster than cog
A. Cog C spins faster than cog B.

Question: 7

Which part of this box should be pushed to tip the box with the least amount of force?

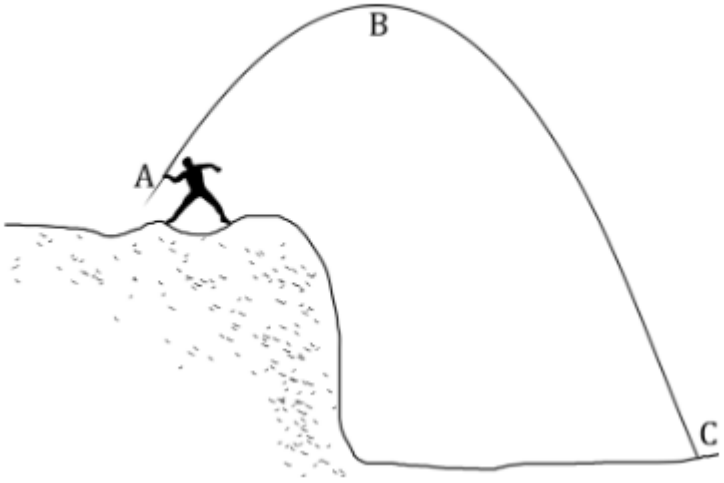


Answer: A

Explanation:
Pushing at A provides a greater moment around the tipping point. Thus, pushing at A allows for the least amount of force.

Question: 8

A boy throws a javelin off a cliff. In which part of the flight will the javelin have the greatest speed?

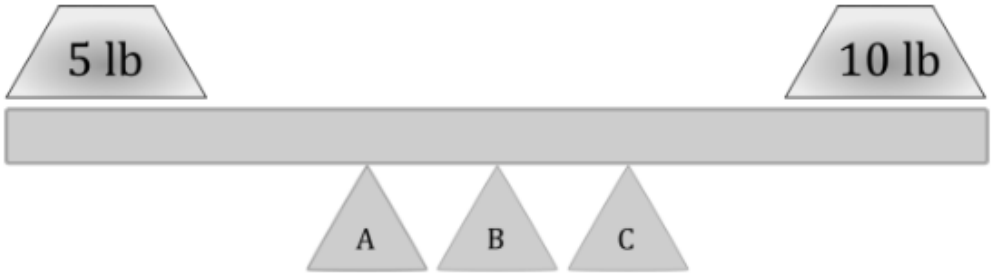


Answer: C

Explanation:
At point C all of the energy (potential energy) has been converted kinetic energy.

Question: 9

A 10-lb weight is placed on one side of a see-saw. A 5-lb weight is placed on the other side. Where does the center of the see-saw likely need to be located to balance the see-saw?

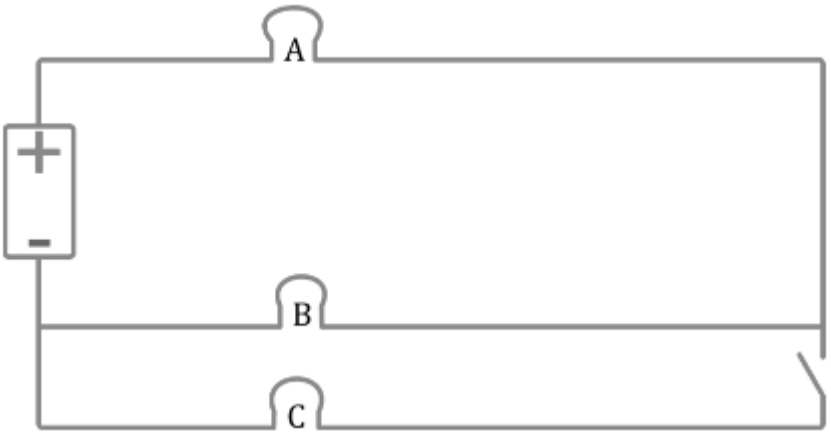


Answer: C

Explanation:
Because the weight on the right is twice the weight of the other, the center of the see-saw needs to be closer to it.

Question: 10

If the switch in this circuit is switched off, which light will turn off?

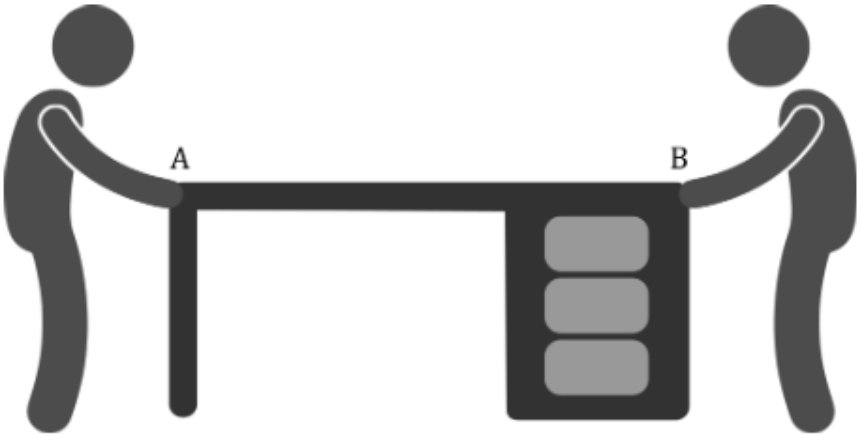


Answer: C

Explanation:
Switching the switch will stop the flow of electricity through light C which is required for the light to be on.

Question: 11

Most of the weight of a desk is in its drawers. If a strong man and a weak man want to lift the desk, which side should the strong man lift? (If equal, mark C.)

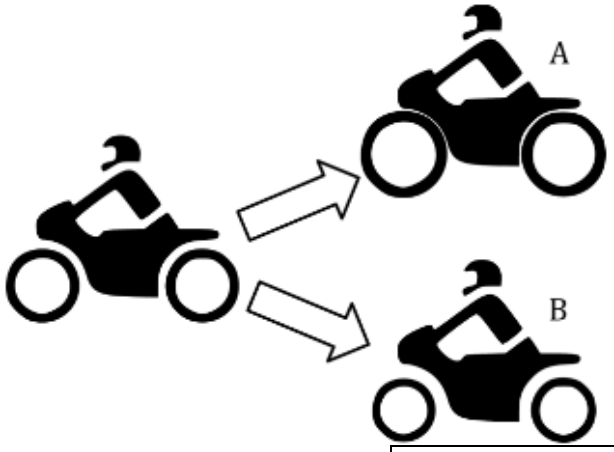


Answer: B

Explanation:
The strong man should be closest to the heavy weight.

Question: 12

A motorcycle can drive its wheels at a maximum rotational speed. To go faster, should the driver replace the wheels with larger wheels or smaller wheels? (If equal, mark C.)



Answer: A

Explanation:
Large wheels have a greater linear velocity on the outside than the linear velocity of small wheels.

Thank You for Trying Our Product

Special 16 USD Discount Coupon: NSZUBG3X

Email: support@examsempire.com

Check our Customer Testimonials and ratings available on every product page.

Visit our website.

https://examsempire.com/