Construction and Industry

BCSP-CAST
Construction and Skilled Trades Selection System Test

Questions And Answers PDF Format:

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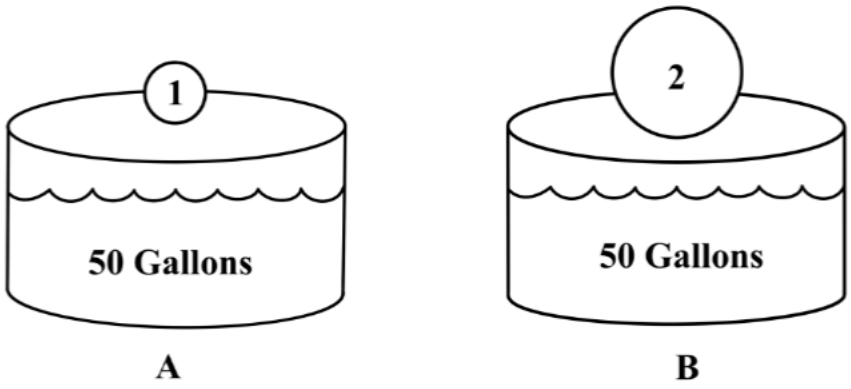
Version = **Product**

Latest Version: 6.0

Question: 1

Objects 1 and 2 are submerged in separate tanks, both filled with water. In which tank (A or B) will the water level be the highest? (If equal, mark C)

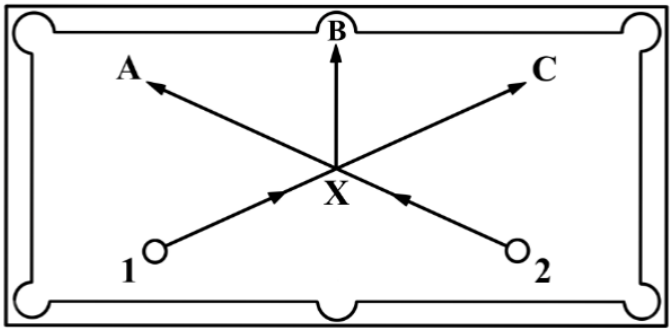


Answer: B

Explanation:
Object 2 is larger than Object 1, so it will displace more water and cause the water level in tank B to be higher than that Of tank A.

Question: 2

If ball 1 and ball 2 are of equal weight and moving at the same speed, in which direction (A, B or C) will ball 1 tend to go when it collides with ball 2 at point X?

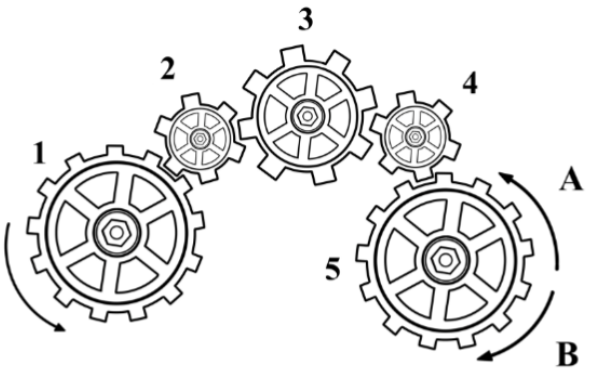


Answer: A

Explanation:
Since momentum is conserved in all collisions, and there is no indication that the balls merge into one upon colliding, ball 1 must rebound off ball 2 toward the upper left pocket.

Question: 3

In which direction (A or B) will gear 5 spin if gear 1 is spinning counter-clockwise? (If both, mark C)

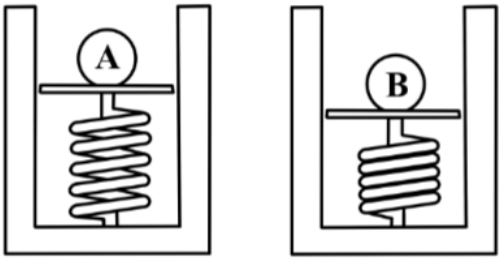


Answer: A

Explanation:
Consecutive gears alternate rotation direction, which means all odd numbered gears turn the same direction. Since 1 and 5 are both odd, both are spinning counter-clockwise in this problem.

Question: 4

Which of the two identical objects (A or B) will launch a higher distance when the springs are released? (If equal, mark C)

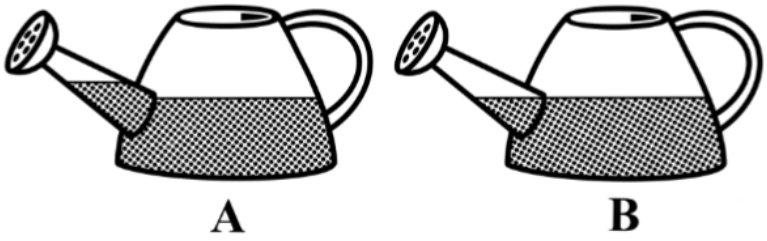


Answer: B

Explanation:
The spring being compressed under object B is being compressed further, and therefore has more potential energy stored up to launch the ball higher into the air.

Question: 5

A watering can is filled with water. Which of the pictures (A or B) shows a more accurate representation of how the water will rest?

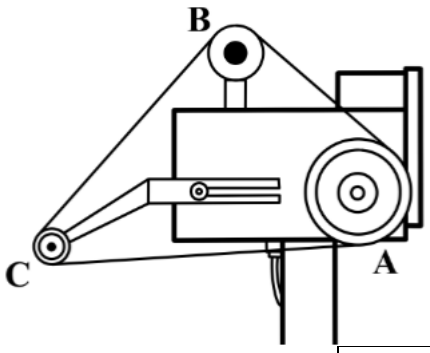


Answer: B

Explanation:
Water (along with nearly every other substance) seeks the lowest emery• state in which to rest. Functionally, this means that the water level will be equally high in all parts of the watering can.

Question: 6

Among this arrangement of three pulleys, which pulley (A, B or C) turns fastest?

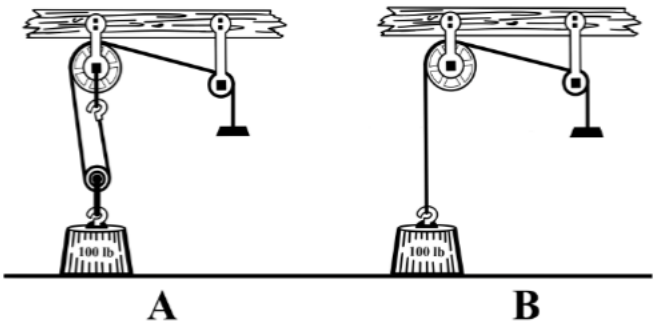


Answer: C

Explanation:
Every point on the belt, and consequently every point on the outside of each pulley, is moving at the same linear speed. Therefore, the pulley with the smallest circumference will rotate the fastest.

Question: 7

Which of the two scenarios (A or B) requires more effort to pull the weight up off the ground? (If equal, mark C)

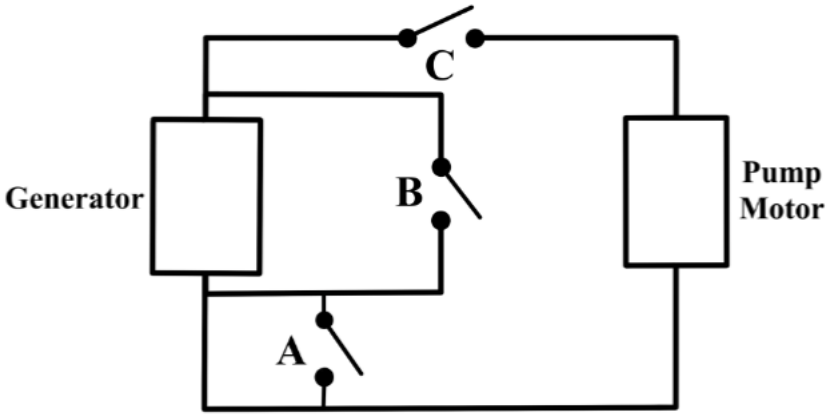


Answer: B

Explanation:
A pulley only reduces the amount of force required to lift an object if the weight is distributed across multiple sections of the rope, as is done in A.

Question: 8

Which switch (A, B or C) should be closed in order to start the pump motor?

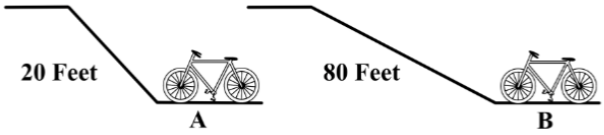


Answer: C

Explanation:
Only switch C creates a closed loop between the generator and the motor. Closing B creates a short circuit, and closing A does nothing.

Question: 9

Which situation (A or B) requires more force to peddle the bicycle up the ramp? (If equal, mark C)

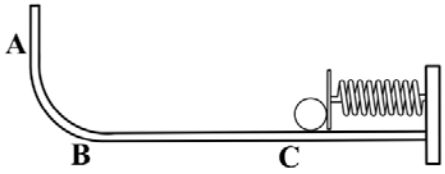


Answer: A

Explanation:
More force is required to propel a bicycle up a steeper slope.

Question: 10

When the spring is released, the ball travels away from the spring to its highest point (A) and then begins to travel back towards its place of origin. At which point (A, B or C) will the ball travel to after it hits the spring a second time?



Answer: B

Explanation:
Because of friction losses within the spring and between the ball and the surface, the ball will not travel as far the second time.

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