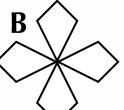


3. Both propellors have the same mass. Which has the larger rotational inertia *I*?

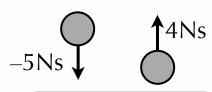




A) A B) B C) both the same

4. A ball bounces off the floor. Its initial momentum is  $p_i = -5$ Ns and its final momentum is  $p_f$  = 4Ns. The change in the momentum is





5. A person is falling at 10mph when he lands on something and comes to a stop. The person experiences the larger impulse if he lands on

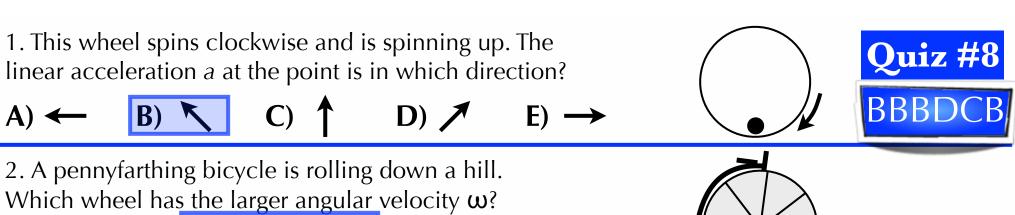
A) the sidewalk B) a big cushion C) both feel the same impulse

6. A bomb, starting at rest, explodes into a 2kg and a 1kg piece. Which piece is moving more quickly right after the explosion?



B) 1kg C) both the same

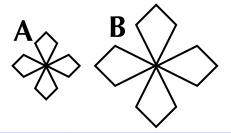




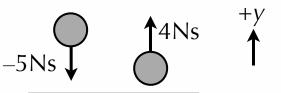
- A) the larger B) the smaller
- C) both have the same  $\omega$



- 3. Both propellors have the same mass. Which has the larger rotational inertia *!*?
- A) A
- B) B C) both the same



- 4. A ball bounces off the floor. Its initial momentum is  $p_i = -5$ Ns and its final momentum is  $p_f$  = 4Ns. The change in its momentum is
- A) -9Ns
  - B) -1Ns C) 1Ns
- D) 9Ns



- 5. A person is falling at 10mph when he lands on something and comes to a stop. The person experiences the larger impulse if he lands on
- A) the sidewalk B) a big cushion C) both feel the same impulse
- 6. A bomb, starting at rest, explodes into a 2kg and a 1kg piece. Which piece is moving more quickly right after the explosion?
- A) 2kg
- B) 1kg
- C) both the same

