

The drum of a washing machine rotates 1800 RPM. What is the frequency (f)?

- A) 30 Hz
 - B) 130 Hz
 - C) 330 Hz
 - D) 23 Hz
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What is the **resultant force** acting on the box?



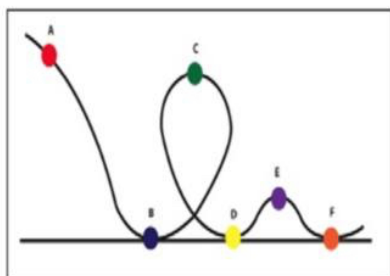
- A) 10N
 - B) 0N
 - C) -10N
 - D) 5N
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AL NOJOU M ACADEMY

What relationship exists between the radius (R) of a circle and the centripetal force F_c ?

- A) Invers square
- B) Exponential
- C) Directly proportional
- D) Inversely proportional

How will you describe the energy at **Point A**?

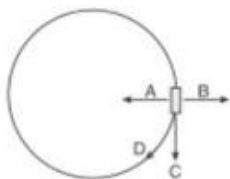


- A) Mostly. Potential energy
- B) Mostly kinetic energy
- C) Losing KE, gaining PE
- D) Losing PE, gaining KE

The SI Unit for Energy is

- A) Calorie (Ca)
- B) Newton (N)
- C) Watt. (W)
- D) Joule (J)

Which arrows represents the **acceleration (a)** of the ball?



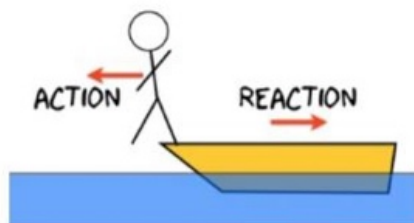
- A) A
- B) B
- C) C
- D) D

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A bicycle has a period of 0.3s . What is the **speed (V)** of its tires if their **radius is 30 cm**?

- 60m/s
- 66m/s
- 3m/s
- 6m/s

Whih one of the laws of Newton can best describe the following picture?



- A) Newton's 1st. law of motion
- B) Newton's 2nd . law of motion
- C) Newton's 3rd . law of motion
- D) Newton's law of gravitation

Which of the following units is used for velocity (v) around the circle?

- A) m/s
- B) m/s^2
- C) N
- D) m^2/s

An object completes a rotation in **T = 0.5 second**. It orbits with a **radius R = 3 m**. What is the object's **speed V= ?**

- A) 28 m/s
- B) 38 m/s
- C) 18 m/s
- D) 58 m/s

An Object is moving round a circle. What happens to its speed. If the radius decreases?

- A) Speed decreases
- B) Speed increases
- C) Speed stays same
- D) Speed goes uncontrolled

Fill the following blanks with the correct concepts in physics:

- 1- _____ is the number of revolutions per second.
- 2- _____ is called the law of inertia.
- 3- _____ is the unit of energy.
- 4- _____ has magnitude and direction of a quantity.

Frequency	Newton's 1 st law.	Joule	Vector
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