

Momentum

Q1 An air pistol fires a pellet forwards.

What is the motion of the air pistol?

- A The air pistol moves backwards with speed greater than the pellet.
- B The air pistol moves backwards with speed less than the pellet.
- C The air pistol moves forward with speed greater than the pellet.
- D The air pistol moves forward with speed less than the pellet.

Q10 0625/22/F/M/20

Q2 An object of mass 1.2 kg is moving with a velocity of 2.0 m/s when it is acted on by a force of 4.0 N. The velocity of the object increases to 5.0 m/s.

For what period of time does the force act on the object?

- A 0.90 s B 1.1 s C 1.5 s D 3.6 s

Q9 0625/21/M/J/20

Q3 An object is moving at +3.0 m/s.

A force acts on the object.

After a time, the object is moving at -4.0 m/s.

The mass of the object is 5.0 kg.

What is the change in momentum of the body?

- A -35 kg m/s B -5.0 kg m/s C +5.0 kg m/s D +35 kg m/s

Q9 0625/22/M/J/20

Q4 A constant force acts on a body causing the momentum of the body to increase.

Which expression relates the force to the momentum and the time taken?

- A $\text{force} = \frac{\text{change in momentum}}{\text{time taken}}$
- B $\text{force} = \frac{\text{momentum}}{\text{time taken}}$
- C $\text{force} = \text{change in momentum} \times \text{time taken}$
- D $\text{force} = \text{momentum} \times \text{time taken}$

Q10 0625/22/F/M/19

Igcse Physics Past Paper Answer Sheet

Camilla Rothe

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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web solution fairly straightforward energy is power times time electric power is voltage times current energy is a scalar so just add up the parts of the cycle and double each to get the total $E_{\text{pt}} = 2 \times 1825 \text{ V} \times 7.5 \text{ A} \times 30 \text{ s} = 240 \text{ V} \times 1.5 \text{ A} \times 60 \text{ s} = 864\,000 \text{ J}$

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web determine nicholas potential energy at the top of the slide b determine nicholas s kinetic energy at the top of the slide c assuming negligible losses of energy between the top of the slide and his approach to the bottom of the slide h 0 m determine nicholas s total mechanical energy as he arrives at the bottom of the slide d

power problems and solutions physics - Mar 04 2022

web 1 a 50 kg person runs up the stairs 10 meters high in 2 minutes acceleration due to gravity g is 10 m/s^2 determine the power known mass m 50 kg height h 10 meters acceleration due to gravity g 10 m/s^2 time interval t 2 minute $2 \times 60 = 120$ seconds wanted power P solution formula of power $P = \frac{W}{t}$