#### 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 0.90s

B 1.1s

C 1.5 s

D 3.6s

O9 0625/21/MU/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

Og 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 force = change in momentum time taken

B force = momentum time taken

C force = change in momentum × time taken

D force = momentum × time taken

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