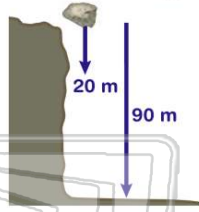




Name _____ Class _____ Date _____

1 A **1-kilogram** rock is dropped from a cliff **90 meters** high. After falling **20 meters**, the **kinetic energy** of the rock is approximately

- A 20 J
- B 200 J
- C 700 J
- D 900 J



2 **Velocity** is to **speed** as **displacement** is to

- A acceleration
- B time
- C momentum
- D distance



3 A person is standing on a bathroom scale in an elevator car. If the scale reads a value **greater** than the weight of the person at rest, **the elevator car could be moving**

- A downward at constant speed
- B upward at constant speed
- C downward at increasing



4 The diagram below represents the path of an object after it was thrown.

What happens to the object's **acceleration** as it travels from **A to B**? [Neglect friction.]



- A It decreases.

5 A student has 8 tasks to do. A student has 8 tasks to do. A student has 8 tasks to do.



PREVIEW

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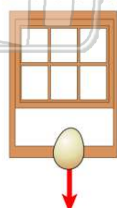
7 B 0.78 m
C 1.2 m
D 3.1 m



- B 8.00 m/s
- C 32.0 m/s
- D 64.0 m/s

9 An egg is dropped from a **third-story** window. The **distance** the egg falls from the **window to the ground** is closest to

- A 10^0 m
- B 10^1 m
- C 10^2 m
- D 10^3 m



10 A **2.0-kilogram** body is initially traveling at a velocity of **40 meters per second east**. If a constant force of **10 newtons due east** is applied to the body for **5.0 seconds**, the **final speed** of the body is

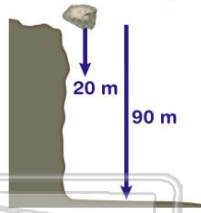
- A 15 m/s
- B 25 m/s
- C 65 m/s
- D 130 m/s



ANSWER KEY

A **1-kilogram** rock is dropped from a cliff **90 meters** high. After falling **20 meters**, the **kinetic energy** of the rock is approximately

- A 20 J
- B 200 J
- C 700 J
- D 900 J



(b)

Velocity is to **speed** as **displacement** is to

- A acceleration
- B time
- C momentum
- D distance



(d)

A person is standing on a bathroom scale in an elevator car. If the scale reads a value **greater** than the weight of the person at rest, **the elevator car could be moving**

- A downward at constant speed
- B upward at constant speed
- C downward at increasing speed
- D upward at increasing speed



(d)

The diagram below represents the path of an object after it was thrown.

What happens to the object's **acceleration** as it travels from **A to B**? [Neglect friction.]



- A It decreases.
- B It increases.

(c)



PREVIEW

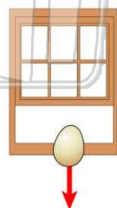
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- C 1.2 m
- D 3.1 m

- C 32.0 m/s
- D 64.0 m/s

An egg is dropped from a **third-story** window. The **distance** the egg falls from the **window to the ground** is closest to

- A 10^0 m
- B 10^1 m
- C 10^2 m
- D 10^3 m



(b)

A **2.0-kilogram** body is initially traveling at a velocity of **40 meters per second east**. If a constant force of **10 newtons due east** is applied to the body for **5.0 seconds**, the **final speed** of the body is

- A 15 m/s
- B 25 m/s
- C 65 m/s
- D 130 m/s

(c)