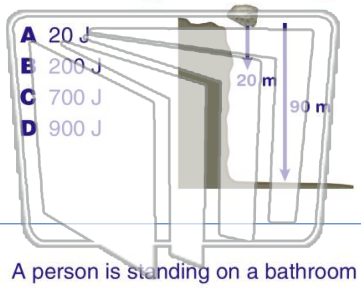
Laws of Motion - Set II

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

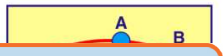
2 **Velocity** is to **speed** as **displacement** is to

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

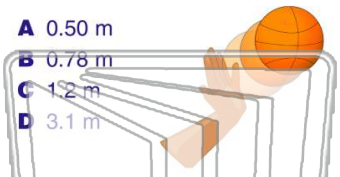
4 The diagram below represents the path of an object after it was thrown.

What happens to the



7 **0.80 second**, how **high** did she jump?

A 0.50 m
B 0.78 m
C 1.2 m
D 3.1 m

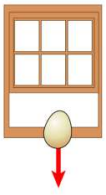


running?

A 5.66 m/s
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

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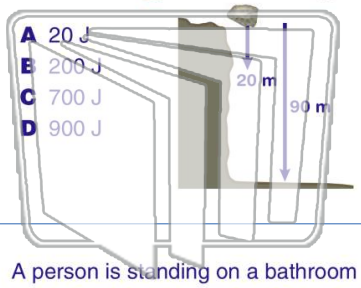

B

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

A acceleration
B time
C momentum
D distance

D

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C

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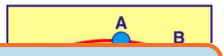
What happens to the



5

A

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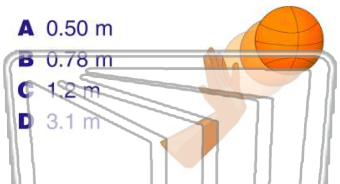

B

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D 64.0 m/s

B

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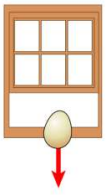

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D 130 m/s

C