



Name _____ Class _____ Date _____

1 Which object **weighs** approximately **1 newton**?

- A dime
- B paper clip
- C physics student
- D golf ball



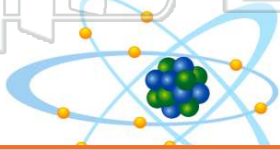
2 Compared to **8 kilograms of feathers**, **6 kilograms of lead** has

- A less mass and less inertia
- B less mass and more inertia
- C more mass and less inertia
- D more mass and more inertia



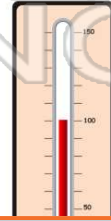
3 **Conductivity** in metallic solids is due to the **presence of free**

- A nuclei
- B protons
- C neutrons
- D electrons



4 Which substance **remains a liquid** over the **smallest** temperature range?

- A copper
- B silver
- C lead



5
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F



PREVIEW

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7
C mass of a proton
C ratio of charge to mass of an electron
D magnitude of the charge of an electron

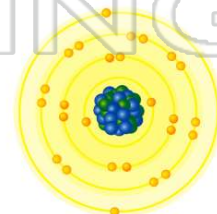
- A -2 elementary charges
- B +2 elementary charges
- C +14 elementary charges
- D +28 elementary charges

9 **Electrostatic force F** exists between two point charges. If the **distance between the charges is tripled**, the **force** between the charges will be

- A F/9
- B F/3
- C 3/F
- D 9F

10 Compared to insulators, **metals are better conductors of electricity** because metals contain **more free**

- A protons
- B electrons
- C positive ions
- D negative ions





ANSWER KEY

Which object **weighs** approximately **1 newton**?

- A dime
- B paper clip
- C physics student
- D golf ball



(d)

Compared to **8 kilograms of feathers**, **6 kilograms of lead** has

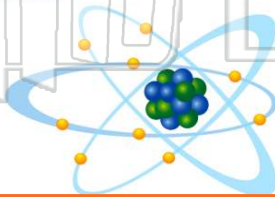
- A less mass and less inertia
- B less mass and more inertia
- C more mass and less inertia
- D more mass and more inertia



(a)

Conductivity in metallic solids is due to the **presence of free**

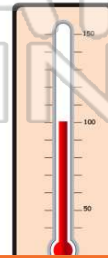
- A nuclei
- B protons
- C neutrons
- D electrons



(d)

Which substance **remains a liquid** over the **smallest** temperature range?

- A copper
- B silver
- C lead
- D iron



(d)

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D magnitude of the charge of an electron

- A -2 elementary charges
- B +2 elementary charges
- C +14 elementary charges
- D +28 elementary charges

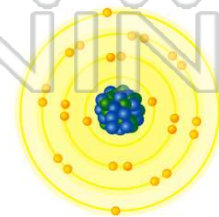
Electrostatic force F exists between two point charges. If the **distance between the charges is tripled**, the **force** between the charges will be

- A $F/9$
- B $F/3$
- C $3/F$
- D $9F$

(a)

Compared to insulators, **metals are better conductors of electricity** because metals contain **more free**

- A protons
- B electrons
- C positive ions
- D negative ions



(b)