

Physical Properties:

- No Conduction
- Red Color
- Brittle
- Not Magnetic
- Not Ductile
- Solid @ Room Temp.

QUESTIONS

1. Calculate the density of the element. MASS: 20.02 grams

VOLUME: 11 cm3

DENSITY: _ 9/cm2

- 2. Is it a Metal, Nonmetal, or Metalloid?
- 3. What is the Mystery Element?



MYSTERY ELEMENTS #1

Physical Properties and their Density Directions:

- Calculate the density of each Element using the mass and volume given.
- Find the element by matching the density to the element on the Periodic Table.
- Determine if the Mystery Element is a Metal, Nonmetal, or Metalloid based on the physical properties listed and the element's location on the Periodic Table.
- Be sure to write the Name of the element.







Physical Properties:

Solid @ Room Temp.

Conductor

►Malleable

▶Ductile

►Orange Luster

Not Magnetic

Physical Properties:

- **▶**Conductor
- **▶Shiny Luster**
- **▶**Malleable
- ▶Not Magnetic
- Not Ductile
- ▶Solid @ Room Temp.

QUESTIONS:

1. Calculate the density of the element. MASS: 714 grams VOLUME: 100 cm3

DENSITY: _ 9/cm2

- 2. Is it a Metal, Nonmetal, or Metalloid?
- 3. What is the Mystery Element?



Physical Properties:

- Semiconductor
- **▶Shiny Luster**
- Brittle

1. Calculate the density of the element.

2. Is it a Metal, Nonmetal, or Metalloid?

3. What is the Mystery Element?

MASS: 156 grams

VOLUME: 25 cm3

DENSITY: _

- Not Magnetic
- Not Ductile

_9/cm2

FSolid @ Room Temp.

OUESTIONS:

1. Calculate the density of the element. MASS: 672 grams

VOLUME: 75 cm³

DENSITY: _ _9/cm3

- 2. Is it a Metal, Nonmetal, or Metalloid?
- 3. What is the Mystery Element?



Physical Properties:

- **▶**Semiconductor
- Shiny Luster
- Brittle
- Not Magnetic
- Not Ductile
- ▶Solid @ Room Temp.

QUESTIONS:

1. Calculate the density of the element.

MASS: 266 grams VOLUME: 50 cm3

DENSITY: __ _9/cm2

- 2. Is it a Metal, Nonmetal, or Metalloid?
- 3. What is the Mystery Element?



Physical Properties:

- Conductor
- Shiny Luster
- ► Malleable
- ►Not Magnetic
- Ductile
- Solid @ Room Temp.

Physical Properties:

- No Conduction
- Red-brown Color Not Brittle/Malleable
- Not Magnetic
- Not Ductile
- ►Liquid @ Room Temp.

Physical Properties:

- **▶**Conductor
- **▶Shiny Luster**
- **▶**Malleable
- ►Not Magnetic
- **▶**Ductile
- > Solid @ Room Temp.

QUESTIONS:

1. Calculate the density of the element. MASS: 123.45 grams VOLUME: 15 cm3

DENSITY: _

3. What is the Mystery Element?

2. Is it a Metal, Nonmetal, or Metalloid?



1. Calculate the density of the element. MASS: 78 grams VOLUME: 25 cm3

DENSITY:

2. Is it a Metal, Nonmetal, or Metalloid?

3. What is the Mystery Element?

QUESTIONS:

1. Calculate the density of the element. MASS: 598.3 grams

DENSITY: _

VOLUME: 31 cm3

2. Is it a Metal, Nonmetal, or Metalloid?

3. What is the Mystery Element?



Physical Properties:

- No Conduction
- Yellow Color
- ▶ Brittle

9/cm3

- Not Magnetic Not Ductile
- ▶Solid @ Room Temp.

Physical Properties:

- Semiconductor
- Shiny Luster
- Brittle
- Not Magnetic Not Ductile
- Solid @ Room Temp.

QUESTIONS:

1. Calculate the density of the element. MASS: 367.4 grams VOLUME: 55 cm3

2. Is it a Metal, Nonmetal, or Metalloid?



Physical Properties:

- ▶Yellow-Green Color
- Not Ductile

QUESTIONS:

DENSITY:

3. What is the Mystery Element?



▶No Conduction

- ▶Not Brittle/Malleable
- ▶Not Magnetic
- FGas @ Room Temp.

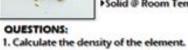
1. Calculate the density of the element. MASS: 150.87 grams

DENSITY:_

VOLUME: 47 L

2. Is it a Metal, Nonmetal, or Metalloid?

3. What is the Mystery Element?



DENSITY:

MASS: 207 grams VOLUME: 100 cm3

2. Is it a Metal, Nonmetal, or Metalloid?

3. What is the Mystery Element?