1.

How many significant figures are in the number?

1.030 x103

75.2

**R**

2.

How many significant figures are in the number?

2040m3

3460g

**A**

3.

A 250ml container is filled with gas and weighs 2.30g. Calculate the density of the gas in the container.

**O**

Yes

4.

The density of zinc is 7.13g/cm3. What is the mass of zinc that fills 485 cm3?

No

**C**

5.

Solve:

4.28g🡪 ? kg

0.0092 g/mL

**W**

6.

Solve:

0.00130L🡪 ? mL

7.6x10-4 cm

**Y**

7.

An experiment requires 205g of phosphoric acid. Is a 150mL Erlenmeyer flask large enough to contain the acid which has a density of 1.83g/mL?

**I**

4

8.

A chemist wants to know if 252g of Au, which has a density of 19.3g/cm3, will fit in a 10mL beaker. Yes or no?

**S**

0.00428 kg

9.

Solve using correct significant figures.

10.023 + 9.45 = ?

140. mph

**N**

10.

Solve using correct significant figures.

2.078 x 36.2 = ?

3

**T**

11.

A race car driver’s average speed was 225.3 km/h. What was his average speed in mph?

**O**

19.47

12.

The diameter of a particular cell is 3x10-4 in. What is the diameter in cm?

1.3mL

**S**