

UNIT 1 – MATTER & CHANGE

IPOD Questions



IT'S *THE* PROBLEM OF *THE* DAY

IPOD # 1

Classify each of the following as a chemical or physical change:

- a) A copper wire is bent.
- b) Charcoal burns in a grill.
- c) Bread dough rises when yeast is added.
- d) Sugar dissolves in water.
- e) Hey!! From Abby and Emmy!!



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IPOD # 2

Classify each of the following as an element, a compound, or a mixture (*specify homogeneous or heterogeneous*):

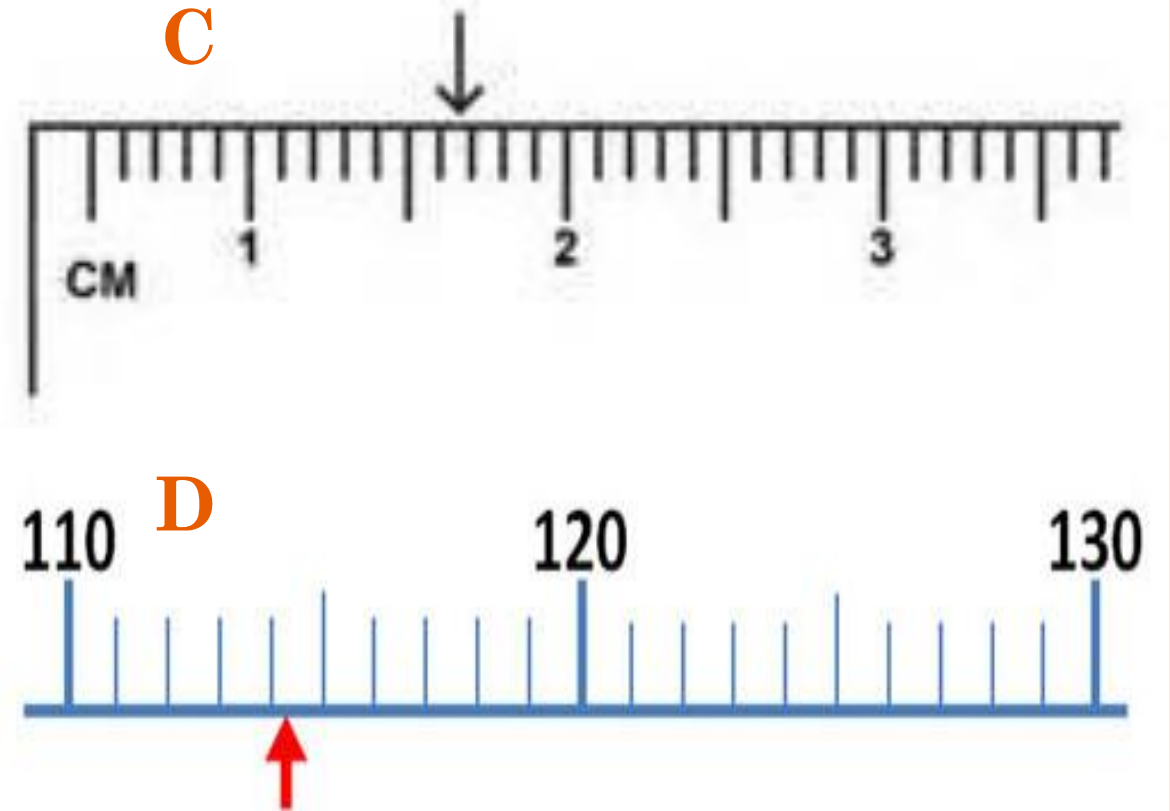
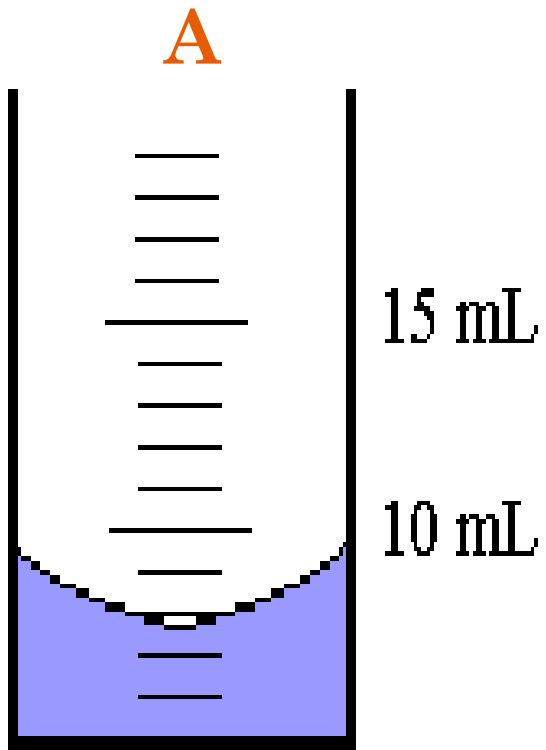
- a) Table sugar
- b) Tap water
- c) Cough syrup
- d) Nitrogen
- e) Raw egg



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IPOD # 3

Report each of the pictures below to the correct number of significant figures based on the increments of measure:



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IPOD # 4

Report the following numbers in scientific or standard notation:

- a) 1.75×10^4
- b) 0.00000000123
- c) 5,045,000,000
- d) 6.89×10^{-3}



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IPOD # 5

Perform the following conversions:

- a) 24.37 km to m
- b) 15 μL to ML
- c) 19.3 g/cm^3 to kg/L (1 mL = 1 cm^3)
- d) 35 mi/hr to m/s



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IPOD # 6

What is the mass, in kilograms, of
14.0 L of gasoline?

Notes:

- 1) *Density of gasoline is 0.680 g/cm^3*
- 2) *Units need to be converted for consistency & for correct final form!*

