

- Perform the calculation below. How should the result of this calculation be expressed, taking into account the appropriate use of significant figures?

$$\frac{27.92}{14.3} - \frac{879.33}{592.1}$$
 - 0.5
 - 0.47
 - 0.467
 - 0.4673
 - 0.46734
- Perform the calculation below. How should the result of this calculation be expressed, taking into account the appropriate use of significant figures?

$$6.93 \times 10^{-5} + 2.7 \times 10^{-8} + 8.992 \times 10^{-5}$$
 - 1.6×10^{-4}
 - 1.59×10^{-4}
 - 1.592×10^{-4}
 - 1.5925×10^{-4}
 - 1.59247×10^{-4}
- Convert 0.0921 nm to pm.
 - 9.21×10^{-23} pm
 - 92.1 pm
 - 9.21×10^{-4} pm
 - 9.21×10^{-5} pm
 - 921 pm
- The density of air at ordinary atmospheric pressure and 25°C is 1.19 g/L. Convert this value to units of lb/ft³.
 - 74.3 lb/ft³
 - 8.00×10^{-5} lb/ft³
 - 0.182 lb/ft³
 - 0.0877 lb/ft³
 - 0.0743 lb/ft³
- Convert 75.0 mi/hr to m/s. (1 mi = 1.6093 km)
 - 33.5 m/s
 - 12.9 m/s
 - 43.6 m/s
 - 121 m/s
 - 335 m/s
- Which of the symbol/name combinations below is incorrect?
 - W, tungsten
 - P, potassium
 - Na, sodium
 - Sn, tin
 - Au, gold
- A particle that has 34 protons, 36 electrons, and 44 neutrons would have the symbol
 - ³⁶Se
 - ⁷⁸Se²⁻
 - ³⁴Kr
 - ⁸¹Se²⁺
 - ⁸¹Se
- Which of the following compounds is named incorrectly?
 - CaF₂ calcium difluoride
 - Al₂O₃ aluminum oxide
 - CCl₄ carbon tetrachloride
 - SF₄ sulfur tetrafluoride
 - N₂O₄ dinitrogen tetroxide
- Which of the following compounds is molecular?
 - Fe₂O₃
 - NaCl
 - CuCl₂
 - K₂O
 - BrF₅
- What is the mass number of an isotope of ₈₀Hg that has 122 neutrons?
 - 80
 - 122
 - 200.59
 - 202
 - 160
- What is the product formed when calcium combines with nitrogen?
 - CaN
 - Ca₂N
 - Ca₃N₂
 - Ca₂N₃
 - Ca₃N₂
- What is the formula for aluminum dichromate?
 - AlCr₂O₇
 - Al₂Cr₂O₇
 - Al₃Cr₂O₇
 - Al₂(Cr₂O₇)₃
 - Al₃(Cr₂O₇)₂
- What is the formula for lead(IV) oxide?
 - PbO₂
 - Pb₂O
 - PbO₄
 - Pb₄O
 - Pb₂O₄
- The bromate ion has the formula BrO₃⁻. Which one of the following is bromous acid?
 - HBrO₃
 - HBrO₂
 - HBrO₄
 - HBrO
 - HBr
- An aqueous solution of which of the following is hydroselenic acid?
 - HSe
 - HSe₂
 - H₂Se
 - H₂SeO₄
 - H₂SeO₃

Answers

1. B
2. C
3. B
4. E
5. A
6. B
7. B
8. A
9. E
10. D
11. E
12. D
13. A
14. B
15. C