

National Mole Day Quiz

1. When is National Mole Day celebrated?

- ☐ a) October 23
- ☐ b) November 23
- ☐ c) September 23
- ☐ d) December 23

(Answer: a) October 23)

2. What time does National Mole Day officially start?

- ☐ a) 6:00 AM
- ☐ b) 6:02 AM
- ☐ c) 6:23 AM
- ☐ d) 6:22 AM

(Answer: b) 6:02 AM)

3. What time does National Mole Day officially end?

- ☐ a) 6:02 PM
- ☐ b) 12:00 PM
- ☐ c) 10:23 PM
- ☐ d) 11:00 PM

(Answer: a) 6:02 PM)

4. National Mole Day is celebrated in honor of which scientific constant?

- ☐ a) Avogadro's number
- ☐ b) Planck's constant
- ☐ c) Newton's law
- ☐ d) Einstein's equation

(Answer: a) Avogadro's number)

5. What is the value of Avogadro's number?

- ☐ a) 3.14×10^{23}
- ☐ b) 6.02×10^{23}
- ☐ c) 9.81×10^{23}
- ☐ d) 1.60×10^{23}

(Answer: b) 6.02×10^{23})

6. Who is Avogadro's number named after?

- ☐ a) Amedeo Avogadro
- ☐ b) Antoine Lavoisier
- ☐ c) Robert Boyle

☐ d) John Dalton

(Answer: a) Amedeo Avogadro)

7. What does one mole of a substance represent?

☐ a) 1 gram of the substance

☐ b) The mass of one atom

☐ c) 6.02×10^{23} particles of that substance

☐ d) 1 liter of the substance

(Answer: c) 6.02×10^{23} particles of that substance)

8. Which field of science is most closely related to National Mole Day?

☐ a) Physics

☐ b) Biology

☐ c) Chemistry

☐ d) Astronomy

(Answer: c) Chemistry)

9. What is the main goal of National Mole Day?

☐ a) To promote interest in chemistry

☐ b) To celebrate animal moles

☐ c) To study astronomy

☐ d) To promote environmental awareness

(Answer: a) To promote interest in chemistry)

10. When was National Mole Day Foundation established?

☐ a) 1983

☐ b) 1986

☐ c) 1991

☐ d) 1995

(Answer: b) 1986)

11. Which country first started celebrating National Mole Day?

☐ a) Canada

☐ b) United States

☐ c) United Kingdom

☐ d) Australia

(Answer: b) United States)

12. Why is National Mole Day celebrated on October 23?

☐ a) To match Avogadro's number ($10/23 \rightarrow 10^{23}$)

☐ b) It marks Avogadro's birthday

☐ c) It is Chemistry Week

☐ d) It is the end of summer

(Answer: a) To match Avogadro's number ($10/23 \rightarrow 10^{23}$))

13. What event often coincides with National Mole Day celebrations?

- ☐ a) National Chemistry Week
- ☐ b) Science Fair Day
- ☐ c) Teacher's Day
- ☐ d) International Science Day

(Answer: a) National Chemistry Week)

14. Which unit uses Avogadro's number for conversions?

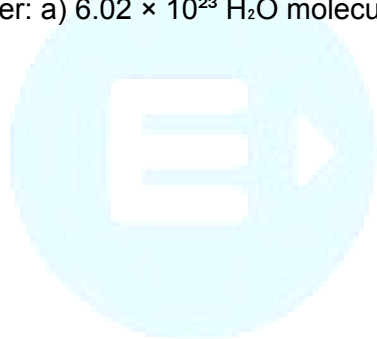
- ☐ a) Kelvin
- ☐ b) Mole
- ☐ c) Newton
- ☐ d) Joule

(Answer: b) Mole)

15. Which of the following represents one mole of water molecules?

- ☐ a) 6.02×10^{23} H₂O molecules
- ☐ b) 1 liter of water
- ☐ c) 18 grams of water only
- ☐ d) One molecule of water

(Answer: a) 6.02×10^{23} H₂O molecules)



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