AL AMAL LEARNING CENTER

PHYSICS KEY BOOK

Class 9 | Unit 1

PHYSICAL QUANTITIES AND MEASUREMENT

MCQs WITH ANSWERS

About this part

Exercise MCQs (Q1) for Class 9 Physics Unit 1 with the correct answer and the reason for each.

Wording, tables and layout are our own, for classroom revision. © Al Amal Learning Center. Please do not copy or re-upload without permission.

Al Amal Learning Center
Physics Key Book

PART MCQs WITH ANSWERS

#	Question	Answer	Reason
1	Which is **not** a derived unit?	**B. kilogram**	Kilogram is the SI base unit of mass; pascal, newton and watt are derived.
2	Amount of a substance in terms of numbers is measured in	**D. mole**	The mole is the SI unit of amount of substance.
3	Significant figures in 0.00650 s	**B. 3**	Leading zeros do not count; 6, 5 and the final 0 count.
4	Number with 4 significant digits	**D. 0.001248**	Leading zeros are ignored, leaving 1248. (9000.8 has 5; 5174.00 has 6.)
5	Prefix with the largest value	**C. peta**	Peta = 10^{15}; mega = 10^{6}, kilo = 10^{3}, pico = 10^{-12}.
6	A micrometer can be used to measure	**C. length**	A micrometer (screw gauge) measures small lengths.
7	Best instrument for the internal diameter of a pipe	**B. vernier calliper**	Its inside jaws can reach into the pipe.
8	LC = 0.01 mm, main reading 0, third circular line coincides	**C. 0.03 mm**	0 + 3 × 0.01 mm = 0.03 mm.
9	9.483×10^{3} m equals	**D. 9483 m**	Move the decimal 3 places right.
10	Which is a base unit?	**D. mole**	Pascal, coulomb and m/s are derived.
11	Number with one significant digit	**D.** 6×10^{2}	Only the digit 6 is significant. (1.1, 6.0 and 7.1 have two.)
12	Ratio of millimetre to micrometre	**C. 1000**	$10^{-3} \div 10^{-6} = 10^{3}$.
13	0.2 mm in metres	**C. both A and B**	0.2 mm = 0.0002 m = 2×10^{-4} m.

Exam tip

In MCQs on units, first decide if the quantity is a base or derived quantity. Remember the seven base units with L-M-T-I-T-A-L (metre, kilogram, second, ampere, kelvin, mole, candela).