

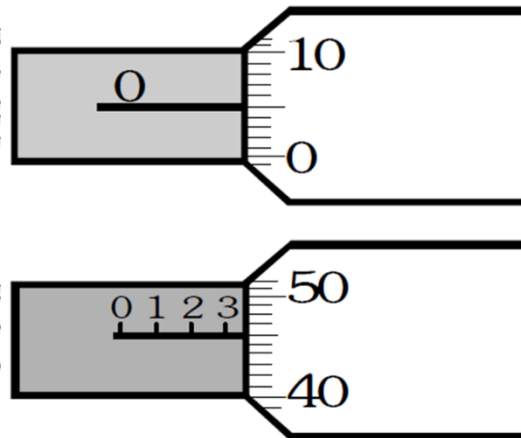
DPP – 4 (Unit & Dimension)

Video Solution on Website:- <https://physicsaholics.com/home/courseDetails/49>

Video Solution on YouTube:- <https://youtu.be/pHcnQpkHhvY>

Written Solution on Website:- <https://physicsaholics.com/note/notesDetails/69>

- Q 1. In a screw gauge, the main scale has divisions in millimeter and circular scale has 50 divisions. The least count of screw gauge is
 (a) $2\mu m$ (b) $5\mu m$
 (c) $20\mu m$ (d) $50\mu m$
- Q 2. In a vernier calliper, N divisions of vernier scale coincide with $(N - 1)$ divisions of main scale (in which 1 division represents 1mm). The least count of the instrument in cm should be:
 (a) N (b) $N - 1$
 (c) $\frac{1}{10N}$ (d) $\frac{1}{N-1}$
- Q 3. The circular scale of a micrometer has 200 divisions and pitch of main scale is 2mm. Find the measured value of thickness of a thin sheet.



- (a) 3.41 mm (b) 6.41 mm
 (c) 3.46 mm (d) 3.51 mm
- Q 4. In a vernier callipers, one main scale division is x cm and n divisions of the vernier scale coincide with $(n-1)$ divisions of the main scale. The least count (in cm) of the callipers is :-
 (a) $\frac{n-1}{n}x$ (b) $\frac{n}{n-1}x$
 (c) $\frac{x}{n}$ (d) $\frac{x}{n-1}$
- Q 5. A screw gauge gives the following reading when used to measure the diameter of a wire.
 Main scale reading : 0 mm.



Answer Key

Q.1 c	Q.2 c	Q.3 b	Q.4 c	Q.5 d
Q.6 a	Q.7 c	Q.8 a	Q.9 b	Q.10 c

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