

NAME
SCHOOL

INDEX NUMBER
DATE

MEASUREMENT II

1. 1995 Q1 P1

Name the instrument that would be most suitable for measuring the thickest of one sheet of this question paper. (1 mark)

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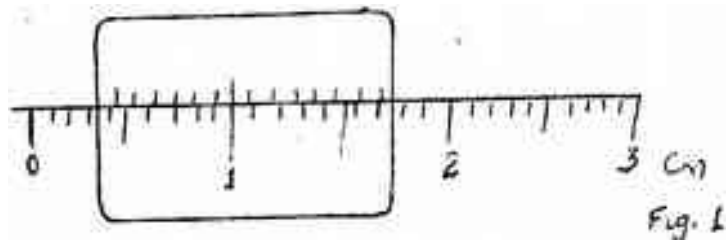
2. 1997 Q6 P1

The number of molecules in 18cm^3 of a liquid is 6×10^{23} . Assuming that the diameter of the molecules is equivalent to the side of a cube having the same volume as the molecule. Determine the diameter of the molecule.

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3. 1999 Q1 P1

What is the reading on the vernier callipers shown in figure 1?



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4. 2002 Q1 P1

Fig one shows a micrometer crew gauge being used to measure the diameter of a metal rod.

The thimble scale has 50 divisions

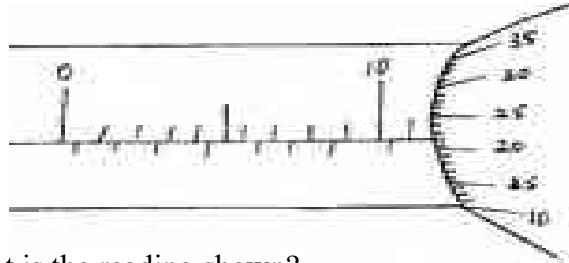


Fig. 1

What is the reading shown?

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5. 2004 Q1 P1

Figure 1 shows a micrometer screw gauge being used to measure the diameter of a ball bearing.

A magnified portion of the scale is shown.

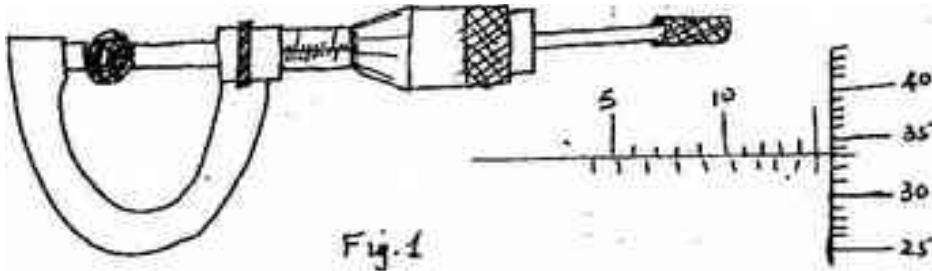


Fig.1

Record the diameter of the ball bearing

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6. 2005 Q27 P1

The melting point of oxygen is given as -273°C . Covert this temperature to Kelvin (K)

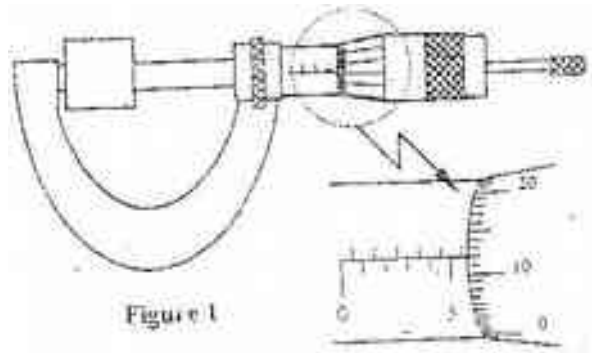
(1 mark)

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7. **2007 Q1 P1**

Figure 1 shows a metal cube of mass 1.75g placed between the jaws of a micrometer screw gauge. The magnified portion of the scale is also shown. The reading on the gauge when the jaws were fully closed without the cube was 0.012 cm. Use this information and the figure to answer questions 7 and 8



What is the length of the cube? (1 mark)

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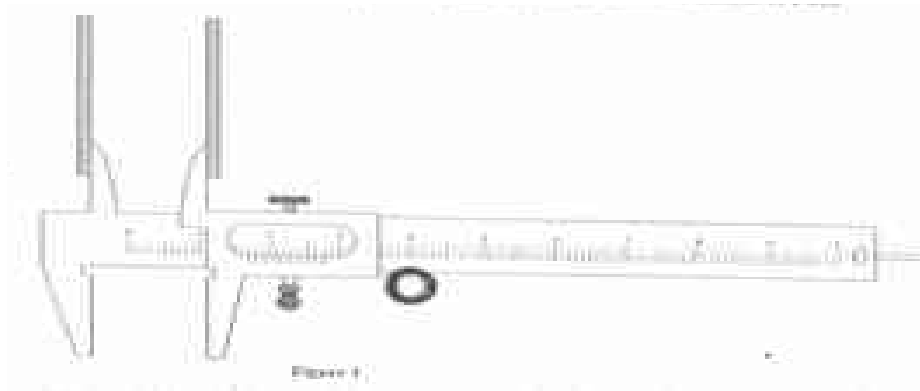
8. **2007 Q2 P1**

Determine the density of the metal cube giving your answer correct to three significant figures. (3 marks)

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9. **2010 Q1 P1**

Figure 1 shows a vernier caliper being used to measure the internal diameter of a tube.



Record the diameter of the tube

(1 mark)

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10. 2010 Q2 P1

A stop watch started 0.50s after the started the start button was pressed. The time recorded using the stopwatch for a ball bearing falling through a liquid was 2.53s. Determine the time of fall.

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