Name: _____ Score: _____
Section: _____ Date: _____

Reading Measurements:
METRIC RULER & METERSTICK

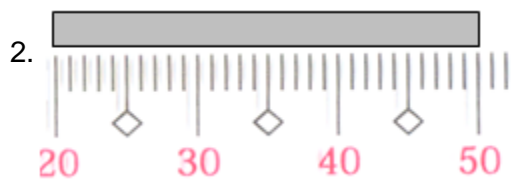Direction: Refer to each of the following diagrams and write the correct measurement on the space provided. Note that each division is equivalent to 1 mm.
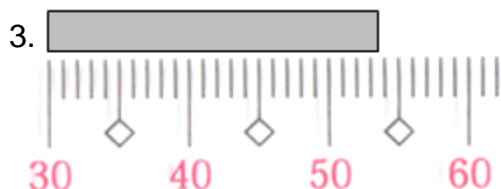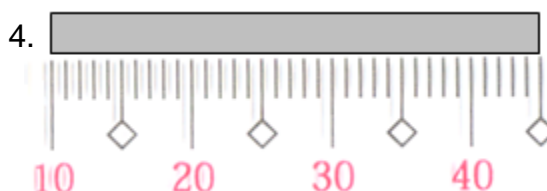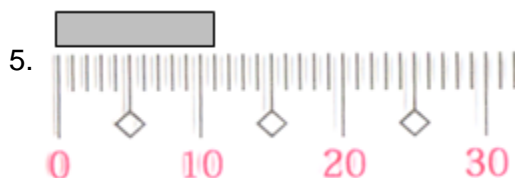
Precision: _____
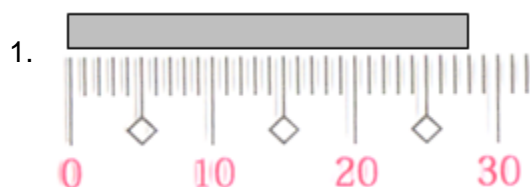
1.
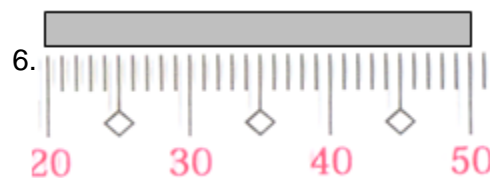
Reading: 28.0 ± 0.5 mm

2.

Reading: 30.0 ± 0.5 mm
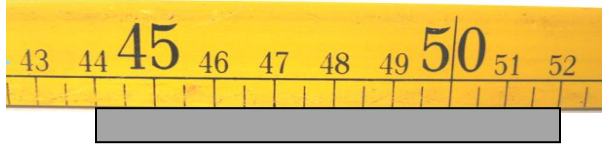
3.

Reading: 23.5 ± 0.5 mm

4.

Reading: 34.9 ± 0.5 mm

5.

Reading: 11.0 ± 0.5 mm

6.

Reading: 30.0 ± 0.5 mm
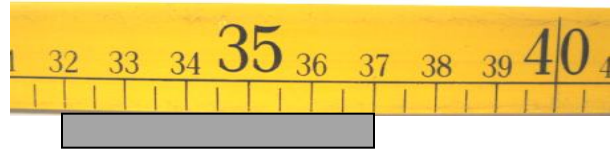
Precision: 0.5 cm

1.
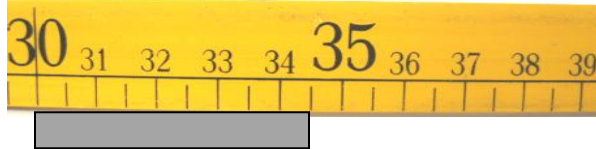
Reading: 8.0 ± 0.25 cm
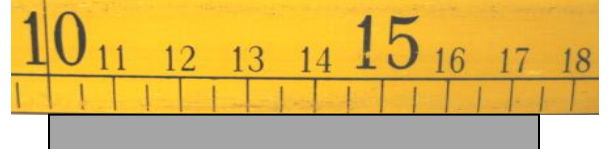
2.

Reading: 5.1 ± 0.25 cm

3.

Reading: 4.50 ± 0.25 cm

4.

Reading: 7.51 ± 0.25 cm

5.

Reading: 3.0 ± 0.25 cm

6.

Reading: 7.50 ± 0.25 cm

7.

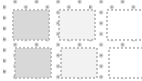Reading: 6.50 ± 0.25 cm

8.

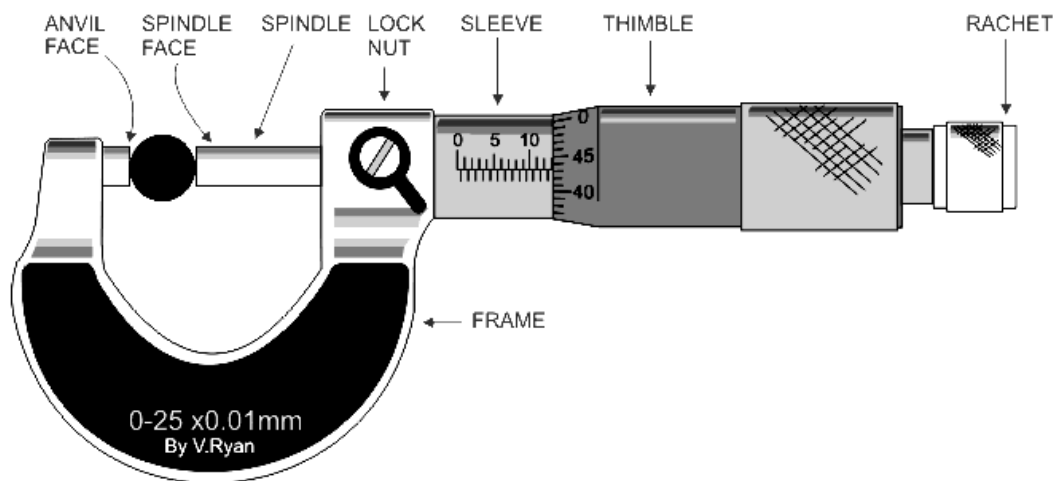Reading: 4.3 ± 0.25 cm

Parts of a Micrometer Caliper

ANVIL FACE   SPINDLE FACE   SPINDLE   LOCK NUT   SLEEVE   THIMBLE   RACHET

0   5   10
45
40

FRAME

0-25 x0.01mm
By V.Ryan

SAMPLE READING

12.000 mm

0   5   10   20
15
10

0.160 mm

By V.Ryan

0.500 mm
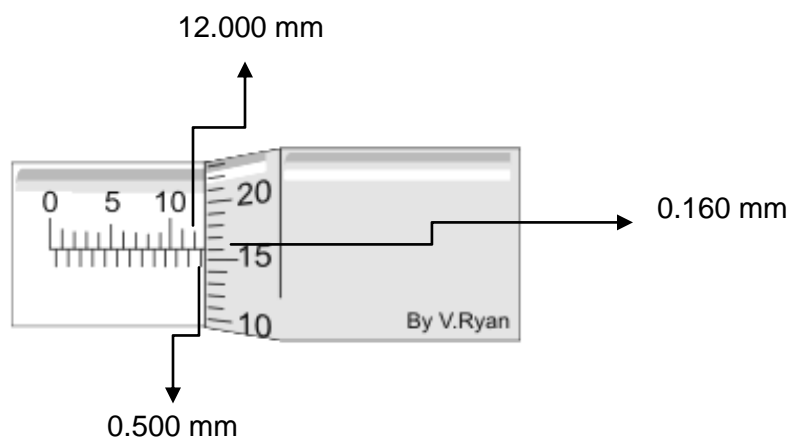
sleeve reads full mm   = 12.000
sleeve reads half mm   =   0.500
thimble reads mm   =   0.160
measurement reading   = 12.660 ± 0.005 mm

Reading Measurement:
VERNIER CALIPER

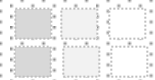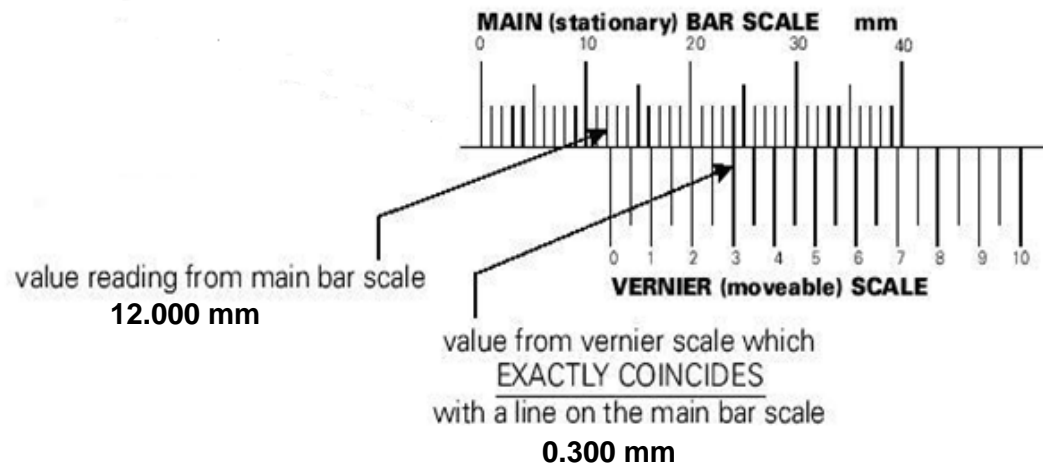Direction: Below is an example measurement reading from a vernier caliper. Write the correct measurement reading and unit on the exercises that follow.

MAIN (stationary) BAR SCALE   mm

value reading from main bar scale
12.000 mm

VERNIER (moveable) SCALE

value from vernier scale which
EXACTLY COINCIDES
with a line on the main bar scale
0.300 mm

SAMPLE READING

main bar scale reads   12.000 mm
Vernier scale reads   0.300 mm
measurement reading 12.300 ± 0.025 mm