

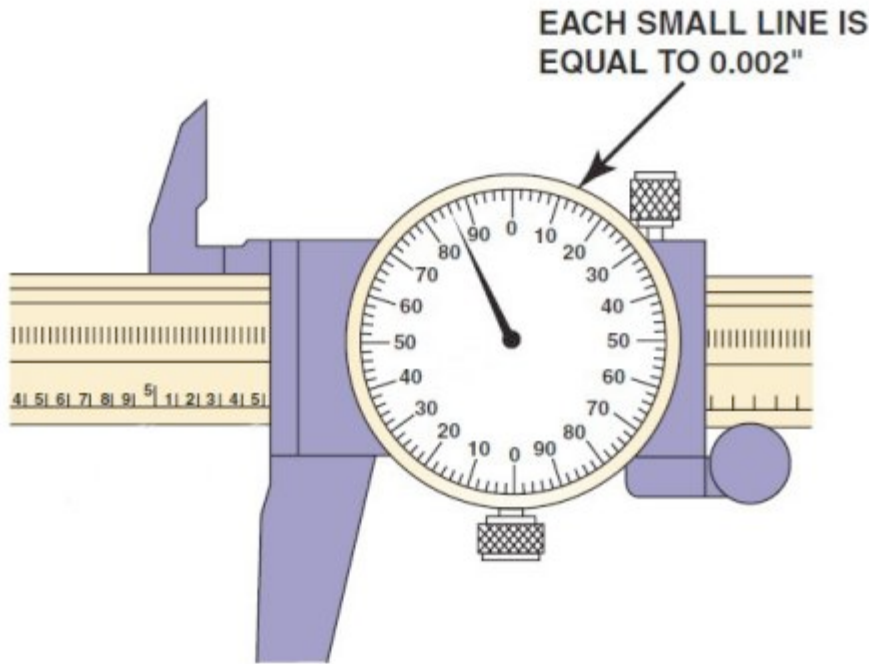
*Automotive Engines 10th*

**Quiz 8B**

**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

1. What is the reading on this dial caliper?

1. \_\_\_\_\_



- A) 5.586 in.
- B) 5.594 in.
- C) 5.500 in.
- D) 9.5836 in.

2. To directly measure the diameter of a valve guide in a cylinder head, use a micrometer and a \_\_\_\_\_.

2. \_\_\_\_\_

- A) telescopic gauge
- B) feeler gauge
- C) small-hole gauge
- D) dial indicator

3. A pressure measurement of 1 bar is equal to \_\_\_\_\_ pounds per square inch.

3. \_\_\_\_\_

- A) 0.14
- B) 29.4
- C) 14.5
- D) 11

4. To check a crankshaft journal for out-of-round, the journal should be measured in at least how many locations?

4. \_\_\_\_\_

- A) Two
- B) Four
- C) Six
- D) Eight

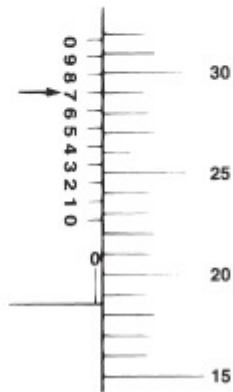
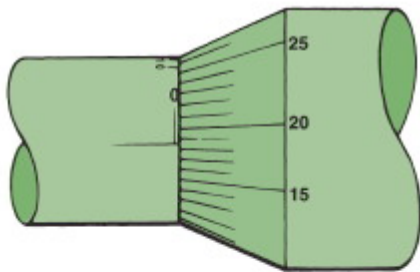
5. Which measuring gauge needs to be set up (adjusted) to a fixed dimension before use? 5. \_\_\_\_\_

A) Dial indicator  
 B) Dial bore gauge  
 C) Vernier caliper  
 D) Micrometer

6. How many complete rotations must the thimble of a standard metric micrometer turn to travel through a reading of 0 to a reading of 25 mm? 6. \_\_\_\_\_

A) 25  
 B) 40  
 C) 50  
 D) 60

7. What is the reading on this metric micrometer? 7. \_\_\_\_\_



- A) 0.187 mm
- B) 0.250 mm
- C) 0.225 mm
- D) 0.161 mm

8. Which of the following CANNOT be measured using a feeler gauge? 8. \_\_\_\_\_

A) Valve guide clearance  
 B) Piston ring gap  
 C) Piston ring side clearance  
 D) Connecting rod side clearance

9. Technician A says that a small-hole gauge (also called a split-ball gauge) is used with a micrometer to measure small holes such as the inside diameter of a valve guide. Technician B says that a dial caliper is used to measure the inside diameter of a piston. Which technician is correct?

9. \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both technicians A and B
- D) Neither technician A nor B

10. Technician A says that a telescopic gauge is used with a micrometer to measure the inside of a hole or bore, such as the big end of a connecting rod or a cylinder bore. Technician B says that a camshaft bearing surface and lobe can be measured using a micrometer. Which technician is correct?

10. \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both technicians A and B
- D) Neither technician A nor B

## Answer Key

Testname: ENGINES 10 8B

1. A  
Page Ref: 80
2. C  
Page Ref: 80
3. C  
Page Ref: 75
4. C  
Page Ref: 78
5. B  
Page Ref: 82
6. B  
Page Ref: 76
7. A  
Page Ref: 78
8. A  
Page Ref: 81
9. A  
Page Ref: 79
10. C  
Page Ref: 78, 80