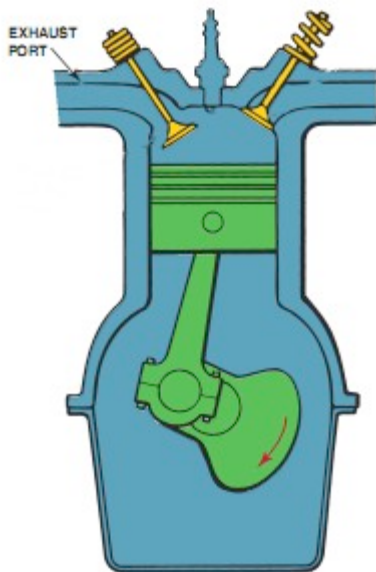


*Automotive Engines 10th*

**Quiz 9A**

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

1. The solid frame or foundation of an engine is called the \_\_\_\_\_. 1. \_\_\_\_\_  
A) frame  
B) crank saddle  
C) block  
D) head
  
2. The volume in the cylinder above the piston when the piston is at the bottom of the stroke (BDC) compared to the volume in the cylinder above the piston when the piston is at the top of the stroke (TDC) is referred to as \_\_\_\_\_. 2. \_\_\_\_\_  
A) volumetric efficiency  
B) compression ratio  
C) compression volume  
D) brake mean effective pressure
  
3. A DOHC (double overhead camshaft) V8 engine uses how many camshafts? 3. \_\_\_\_\_  
A) 4  
B) 3  
C) 2  
D) 1
  
4. Which part of the four stroke cycle is illustrated in this drawing? 4. \_\_\_\_\_



- A) Intake stroke
- B) Exhaust stroke
- C) Compression stroke
- D) Power stroke

5. On a dynamometer, horsepower is calculated by which of these formulae? 5. \_\_\_\_\_
- A) Torque  $\times$  RPM
  - B) Stroke  $\times$  bore  $\times$  55
  - C) Torque  $\times$  RPM  $\div$  5252
  - D) Stroke  $\times$  bore  $\times$  3300
6. How many rotations of the crankshaft are required to complete each stroke of a four-stroke cycle engine? 6. \_\_\_\_\_
- A) One-fourth
  - B) One-half
  - C) One
  - D) Two
7. Which of these is NOT part of the rotating assembly? 7. \_\_\_\_\_
- A) pistons
  - B) connecting rods
  - C) crankshaft
  - D) camshafts
8. Technician A says that work is defined as actually accomplishing movement when force is applied to an object. Technician B says that torque is a form of work. Which technician is correct? 8. \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
9. A normally aspirated automobile engine loses about \_\_\_\_\_ power per 1000 feet of altitude. 9. \_\_\_\_\_
- A) 1%
  - B) 3%
  - C) 5%
  - D) 6%
10. Increasing the bore of an engine \_\_\_\_\_ the compression ratio. 10. \_\_\_\_\_
- A) does not change
  - B) increases
  - C) decreases
  - D) None of these are correct

## Answer Key

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2. B  
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3. A  
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4. B  
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5. C  
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6. B  
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7. D  
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8. A  
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9. B  
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10. B  
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