

Name _____

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

- 1) When the pushrod is the correct length, the rocker arm tip will contact the _____ of the valve stem. 1) _____
 - A) Side
 - B) Center
 - C) Inner edge
 - D) Outer edge

- 2) Why is it recommended that a new camshaft be "degreed"? 2) _____
 - A) The cam gear locating pin position could be different
 - B) Because of camshaft grinding variations
 - C) Due to timing chain or gear variations
 - D) All of the above

- 3) An accurate setting for top dead center (TDC) can be found using a degree wheel and _____. 3) _____
 - A) A piston stop
 - B) A connecting rod brake
 - C) Flywheel and block chisel marks
 - D) Timing cover marks

- 4) The big end of the rod is considered to be _____. 4) _____
 - A) Rotating weight
 - B) Reciprocating weight
 - C) Inertia weight
 - D) Both A and B

- 5) How is the crankshaft usually balanced? 5) _____
 - A) Material is welded onto the counterweight
 - B) Pistons are replaced until a matched set is achieved
 - C) Material is drilled out of the counterweight
 - D) Heavy metal is used to increase the weight of the counterweight

- 6) What process can be used to balance a crankshaft? 6) _____
 - A) Material is welded onto the counterweight
 - B) Heavy metal is used to increase the weight of the counterweight
 - C) Material is drilled out of the counterweight
 - D) Any of these may be used

- 7) Blueprinting is a process that _____. 7) _____
 - A) Uses factory-only specifications
 - B) Uses the parts manufacturer's recommended specification for many of the critical clearances
 - C) Includes identifying the use of the engine and the vehicle it is going to be used in
 - D) Both B and C

8) A balancing factor is a formula used to determine what percentage of the reciprocating weight needs to be included in the bob weight. This is usually _____.

- A) 10%
- B) 20%
- C) 40%
- D) 50%

8) _____

9) A gram weighs about the same as a _____.

- A) Paper clip
- B) Feather
- C) Penny
- D) Dime

9) _____

10) When balancing a 4-cylinder engine, all of the following parts are needed, EXCEPT _____.

- A) Crankshaft
- B) Damper
- C) Flywheel
- D) Valve springs

10) _____

Answer Key

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1) B

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2) D

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3) A

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4) A

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5) C

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6) D

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7) D

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8) D

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9) A

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10) D

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