

Name _____

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Class _____

Date _____

: _____ : _____ e: _____

Chapter 02 - Hand and Shop Tools, Precision Tools, and Units of Measurement

1. A wrench that has an open end, and a box end, both of the same nominal dimension, is known as a

- a. adjustable wrench
- b. spanner wrench
- c. open-box end wrench
- d. combination wrench

ANSWER: d
POINTS: 1
REFERENCES: Combination Wrenches
Figure 2-2
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:35 AM
DATE MODIFIED: 9/26/2019 10:36 AM

2. Which of the following is NOT a type of torque wrench?

- a. electronic
- b. click
- c. spring
- d. dial

ANSWER: c
POINTS: 1
REFERENCES: Torque Wrenches
Figure 2-3
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:36 AM
DATE MODIFIED: 9/26/2019 10:37 AM

3. When a technician fails to use a torque wrench to tighten a fastener, what is the likely outcome?

- a. fastener breaks
- b. fastener over-torqued by 50-100%
- c. fastener under-torqued by 50-100%
- d. fastener drops

ANSWER: b
POINTS: 1
REFERENCES: Torque Wrenches
Figure 2-4
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:37 AM
DATE MODIFIED: 9/26/2019 10:38 AM

4. When a fastener is torqued to specification, approximately how much of the twisting force is required to overcome

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thread friction?

- a. 10%
- b. 25%
- c. 50%
- d. 90%

ANSWER: d
POINTS: 1
REFERENCES: Torque Wrenches
Figure 2-4
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:38 AM
DATE MODIFIED: 9/26/2019 10:39 AM

5. When a fastener is torqued to specification, approximately what percentage of the twisting force is converted into clamping force?

- a. 10%
- b. 25%
- c. 50%
- d. 90%

ANSWER: a
POINTS: 1
REFERENCES: Torque Wrenches
Figure 2-4
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:39 AM
DATE MODIFIED: 9/26/2019 10:40 AM

6. Which type of hammer would NOT be found in a truck technician's tool box?

- a. ball peen
- b. cross peen
- c. claw
- d. rubber mallet

ANSWER: c
POINTS: 1
REFERENCES: Hammers
Figure 2-7
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:40 AM
DATE MODIFIED: 9/26/2019 10:40 AM

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7. What is the maximum measuring range of a metric micrometer?

- a. 250 mm
- b. 100 mm
- c. 25 mm
- d. 10 mm

ANSWER: c

POINTS: 1

REFERENCES: Reading a Metric Outside Micrometer
Figure 2-17

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 9/26/2019 10:41 AM

DATE MODIFIED: 9/26/2019 10:41 AM

8. What is the maximum measuring *range* of a standard micrometer, whether specified as 1-inch, 2-inch, or 6-inch?

- a. 10 inches
- b. 5 inches
- c. 1 inch
- d. 1/10 inch

ANSWER: c

POINTS: 1

REFERENCES: Reading an Inch-Graduated Outside Micrometer
Figure 2-14

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 9/26/2019 10:42 AM

DATE MODIFIED: 9/26/2019 10:42 AM

9. What cutting fluid should be used when reaming mild steel?

- a. lard
- b. dry
- c. kerosene
- d. soluble oil

ANSWER: a

POINTS: 1

REFERENCES: Table 2-1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 9/26/2019 10:43 AM

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10. What cutting fluid should be used when drilling aluminum?

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- a. lard
- b. dry
- c. soluble oil
- d. kerosene

ANSWER: d
POINTS: 1
REFERENCES: Table 2-1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:44 AM
DATE MODIFIED: 9/26/2019 10:44 AM

11. To what accuracy are standard electronic digital calipers capable of reading?

- a. 0.0005 inch
- b. 0.001 inch
- c. 0.050 inch
- d. 0.500 inch

ANSWER: a
POINTS: 1
REFERENCES: Electronic Digital Calipers
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:44 AM
DATE MODIFIED: 9/26/2019 10:45 AM

12. When tapping brass, what cutting fluid is recommended?

- a. lard
- b. soluble oil
- c. none
- d. kerosene

ANSWER: c
POINTS: 1
REFERENCES: Table 2-1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:45 AM
DATE MODIFIED: 9/26/2019 10:45 AM

13. How many full thimble rotations are required to move a standard micrometer through 0.025 inches?

- a. one
- b. two
- c. five

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d. ten

ANSWER:

a

POINTS:

1

REFERENCES:

Reading an Inch-Graduated Outside Micrometer

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

False

DATE CREATED:

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DATE MODIFIED:

9/26/2019 10:46 AM

14. How many full thimble rotations are required to move a standard micrometer through 0.50 inches?

- a. five
- b. ten
- c. twenty
- d. fifty

ANSWER:

c

POINTS:

1

REFERENCES:

Reading an Inch-Graduated Micrometer

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

False

DATE CREATED:

9/26/2019 10:46 AM

DATE MODIFIED:

9/26/2019 10:47 AM

15. How many full rotations of a metric micrometer are required to measure 2.5 millimeters?

- a. one
- b. five
- c. ten
- d. twenty-five

ANSWER:

b

POINTS:

1

REFERENCES:

Reading a Metric Outside Micrometer

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

False

DATE CREATED:

9/26/2019 10:47 AM

DATE MODIFIED:

9/26/2019 10:48 AM

16. An engine main bearing clearance specification is stated to be 0.0035 inches. What color Plastigage™ is required to measure the actual bearing clearance?

- a. green
- b. red
- c. blue
- d. yellow

ANSWER:

b

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POINTS: 1
REFERENCES: Plastigage
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:48 AM
DATE MODIFIED: 9/26/2019 10:48 AM

17. Which of the following measuring tools is used in conjunction with an outside micrometer?

- a. combination square
- b. telescoping gauges
- c. Plastigage
- d. dial bore gauge

ANSWER: b
POINTS: 1
REFERENCES: Telescoping Gauges
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:49 AM
DATE MODIFIED: 9/26/2019 10:49 AM

18. When a precision straight edge is used to measure cylinder block deck wear, which of the following must be used to make a precise measurement?

- a. depth gauge
- b. dial bore gauge
- c. dial indicator
- d. thickness gauges

ANSWER: d
POINTS: 1
REFERENCES: Precision Straightedge
Thickness Gauges
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:49 AM
DATE MODIFIED: 9/26/2019 10:50 AM

19. Which of the following is NOT a standard sledgehammer head weight?

- a. 8 pounds
- b. 12 pounds
- c. 16 pounds
- d. 20 pounds

ANSWER: d
POINTS: 1

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REFERENCES: Sledgehammers
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:50 AM
DATE MODIFIED: 9/26/2019 10:51 AM

20. What is the function of a spreader bar?
- a. piston installation
 - b. removing wrist pins
 - c. lifting engines from chassis
 - d. separating cylinder head from block

ANSWER: c
POINTS: 1
REFERENCES: Spreader Bars
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:53 AM
DATE MODIFIED: 9/26/2019 10:53 AM

21. The working load limit of a chain is usually equivalent to what percentage of the tensile strength rating of the steel it is made of?
- a. 25 percent
 - b. 50 percent
 - c. 75 percent
 - d. 100 percent

ANSWER: a
POINTS: 1
REFERENCES: Chains
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:53 AM
DATE MODIFIED: 9/26/2019 10:54 AM

22. What is the approximate tensile strength of a 7/8 grade five bolt?
- a. 75,000 psi
 - b. 85,000 psi
 - c. 100,000 psi
 - d. 120,000 psi

ANSWER: d
POINTS: 1
REFERENCES: Fastener Replacement
Figure 2-43

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QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:54 AM
DATE MODIFIED: 9/26/2019 10:55 AM

23. What is the tensile strength of a 1/2 inch grade eight bolt?

- a. 50,000 psi
- b. 95,000 psi
- c. 150,000 psi
- d. 190,000 psi

ANSWER: c
POINTS: 1
REFERENCES: Figure 2-43
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 10:55 AM
DATE MODIFIED: 9/26/2019 10:56 AM

24. How many radial strokes are used to identify an SAE grade eight bolt?

- a. one
- b. three
- c. six
- d. eight

ANSWER: c
POINTS: 1
REFERENCES: Fastener Grades and Classes
Figure 2-36
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:04 AM
DATE MODIFIED: 9/26/2019 11:05 AM

25. Which of the following instruments is designed to measure rotational speed?

- a. dial bore gauge
- b. dial indicator
- c. load rotor
- d. tachometer

ANSWER: d
POINTS: 1
REFERENCES: Tachometers
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False

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DATE CREATED: 9/26/2019 11:05 AM
DATE MODIFIED: 9/26/2019 11:06 AM

26. Convert 90 psi to kPa and round up to the nearest of the following values:

- a. 300 kPa
- b. 600 kPa
- c. 900 kPa
- d. 1200 kPa

ANSWER: b
POINTS: 1
REFERENCES: Pressure Conversions
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:13 AM
DATE MODIFIED: 9/26/2019 11:14 AM

27. Convert 30,000 psi to bar and round to the nearest of the following values:

- a. 500 bar
- b. 1000 bar
- c. 2000 bar
- d. 3000 bar

ANSWER: c
POINTS: 1
REFERENCES: Pressure Conversions
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:14 AM
DATE MODIFIED: 9/26/2019 11:15 AM

28. Convert 36 degrees Celsius to degrees Fahrenheit and round to the nearest of the following values:

- a. 32 degrees Fahrenheit
- b. 50 degrees Fahrenheit
- c. 100 degrees Fahrenheit
- d. 360 degrees Fahrenheit

ANSWER: c
POINTS: 1
REFERENCES: Temperature Conversion
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:15 AM
DATE MODIFIED: 9/26/2019 11:15 AM

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29. What does the prefix *milli* mean?

- a. one thousandth
- b. one hundredth
- c. one hundred
- d. one thousand

ANSWER: a
POINTS: 1
REFERENCES: Metric Weight And Measures
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:16 AM
DATE MODIFIED: 9/26/2019 11:16 AM

30. What does the prefix *kilo* mean?

- a. one hundredth
- b. one thousandth
- c. one hundred
- d. one thousand

ANSWER: d
POINTS: 1
REFERENCES: Metric Weight And Measures
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:16 AM
DATE MODIFIED: 9/26/2019 11:17 AM

31. Convert 600 horsepower to kilowatts:

- a. 428 kw
- b. 448 kw
- c. 462 kw
- d. 484 kw

ANSWER: b
POINTS: 1
REFERENCES: Power Conversion
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:17 AM
DATE MODIFIED: 9/26/2019 11:18 AM

32. Convert 440 horsepower to kilowatts

- a. 312 kw
- b. 322 kw

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- c. 328 kw
- d. 332 kw

ANSWER: c
POINTS: 1
REFERENCES: Power Conversion
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:18 AM
DATE MODIFIED: 9/26/2019 11:19 AM

33. Which of the following prefixes is used to express a millionth of any value?

- a. milli
- b. micro
- c. nano
- d. pico

ANSWER: b
POINTS: 1
REFERENCES: The Metric System and English/Metric Conversion
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:19 AM
DATE MODIFIED: 9/26/2019 11:19 AM

34. What measurement is theoretically one ten-millionth of the distance between the equator and either pole?

- a. one inch
- b. one centimeter
- c. one meter
- d. one kilometer

ANSWER: c
POINTS: 1
REFERENCES: The Metric System and English/Metric Conversion
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:20 AM
DATE MODIFIED: 9/26/2019 11:21 AM

35. Which of the following values is the odd one out?

- a. 14.7 psi
- b. 101.3 kPa
- c. 29.92 inches Hg
- d. 3 bar

ANSWER: d

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POINTS: 1
REFERENCES: Pressure Conversions
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:21 AM
DATE MODIFIED: 9/26/2019 11:21 AM

36. The working load of a chain is normally what percentage of the rated tensile strength of the chain material?

- a. 10%
- b. 25%
- c. 50%
- d. 100%

ANSWER: b
POINTS: 1
REFERENCES: Chains
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:22 AM
DATE MODIFIED: 9/26/2019 11:22 AM

37. What cutting fluid should be used when tapping threads to a cast iron block?

- a. dry
- b. soluble oil
- c. water
- d. lard

ANSWER: d
POINTS: 1
REFERENCES: Cutting Fluids
Table 2-1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:23 AM
DATE MODIFIED: 9/26/2019 11:24 AM

38. Which type of tap should be used to cut new threads to a bore?

- a. taper
- b. plug
- c. bottom
- d. chaser

ANSWER: a
POINTS: 1
REFERENCES: Taps and Dies

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QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:24 AM
DATE MODIFIED: 9/26/2019 11:25 AM

39. Convert 10 lb.ft to Newton meters

- a. 1.356
- b. 2.623
- c. 13.56
- d. 26.23

ANSWER: c
POINTS: 1
REFERENCES: Metric to Standard Conversion Formula
Torque Conversion

QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:35 AM
DATE MODIFIED: 9/26/2019 11:36 AM

40. Which tool should be used to torque line nuts?

- a. box end wrench
- b. open end wrench
- c. deep socket
- d. line wrench

ANSWER: d
POINTS: 1
REFERENCES: Line Wrenches
Figure 2-2D

QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:36 AM
DATE MODIFIED: 9/26/2019 11:37 AM

41. How many flats does a hex nut have?

- a. three
- b. six
- c. four
- d. eight

ANSWER: b
POINTS: 1
REFERENCES: Open-End Wrenches
Box-End Wrenches
Fasteners

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Figure 2-35

QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:37 AM
DATE MODIFIED: 9/26/2019 11:37 AM

42. The closest metric wrench size to a standard 3/4 inch wrench is

- a. 15 mm
- b. 18 mm
- c. 19 mm
- d. 21 mm

ANSWER: c
POINTS: 1
REFERENCES: Combination Wrenches
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:39 AM
DATE MODIFIED: 9/26/2019 11:39 AM

43. To convert pound/feet to pound/inches multiply by

- a. 12
- b. 24
- c. 48
- d. 56

ANSWER: a
POINTS: 1
REFERENCES: Metric To Standard Conversion Formula
Torque Conversion
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:40 AM
DATE MODIFIED: 9/26/2019 11:40 AM

44. What should be used to remove a stud that has sheared flush to an engine block?

- a. stud extractor
- b. drill and screw extractor
- c. oxyacetylene torch
- d. pneumatic hammer

ANSWER: b
POINTS: 1
REFERENCES: Screw Extractors
Figure 2-10

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QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:40 AM
DATE MODIFIED: 9/26/2019 11:41 AM

45. Which of the following would most accurately size a hole?

- a. spiral fluted, taper reamer
- b. high-speed twist drill
- c. diamond tipped drill
- d. thread chaser

ANSWER: a
POINTS: 1
REFERENCES: Reamers
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:41 AM
DATE MODIFIED: 9/26/2019 11:42 AM

46. What is known as the combined angle of the cutting edges of a drill bit?

- a. cutting angle
- b. boring angle
- c. point angle
- d. bottoming angle

ANSWER: c
POINTS: 1
REFERENCES: Drill Bits
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:42 AM
DATE MODIFIED: 9/26/2019 11:43 AM

47. What is the correct point angle of a drill bit designed for drilling steel?

- a. 90 degrees
- b. 100 degrees
- c. 120 degrees
- d. 150 degrees

ANSWER: c
POINTS: 1
REFERENCES: Drill Bits
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:43 AM

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DATE MODIFIED: 9/26/2019 11:43 AM

48. Which of the following tools is capable of performing inside, outside, and depth measurements?

- a. dial indicator
- b. digital calipers
- c. combination square
- d. inside micrometer

ANSWER: b
POINTS: 1
REFERENCES: Electronic Digital Calipers
Figure 2-12
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:44 AM
DATE MODIFIED: 9/26/2019 11:44 AM

49. When measuring shaft runout, a dial indicator produces readings between +0.0025 inches (positive) and -0.0055 inches (negative). What is the TIR?

- a. 0.0025 inches
- b. 0.0055 inches
- c. 0.010 inches
- d. 0.008 inches

ANSWER: d
POINTS: 1
REFERENCES: Dial Indicators
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:45 AM
DATE MODIFIED: 9/26/2019 11:45 AM

50. Technician A says that the metric pressure unit of 1 bar represents is actually slightly less than one unit of atmospheric pressure (14.7 psi/ 101.3 kPa). Technician B says that 2 bar is exactly equivalent to 200 kPa. Who is correct?

- a. Technician A only
- b. Technician B only
- c. Both A and B
- d. Neither A nor B

ANSWER: c
POINTS: 1
REFERENCES: Pressure Conversions
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 9/26/2019 11:45 AM

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DATE MODIFIED: 9/26/2019 11:46 AM

51. If you were required to remove a seized hex nut from a threaded stud, which of the following would be the best choice of tool?

- a. pipe wrench
- b. adjustable wrench
- c. hex wrench
- d. double-hex wrench

ANSWER:	c
POINTS:	1
REFERENCES:	Box-End Wrenches
QUESTION TYPE:	Multiple Choice
HAS VARIABLES:	False
DATE CREATED:	9/26/2019 11:47 AM
DATE MODIFIED:	9/26/2019 11:47 AM