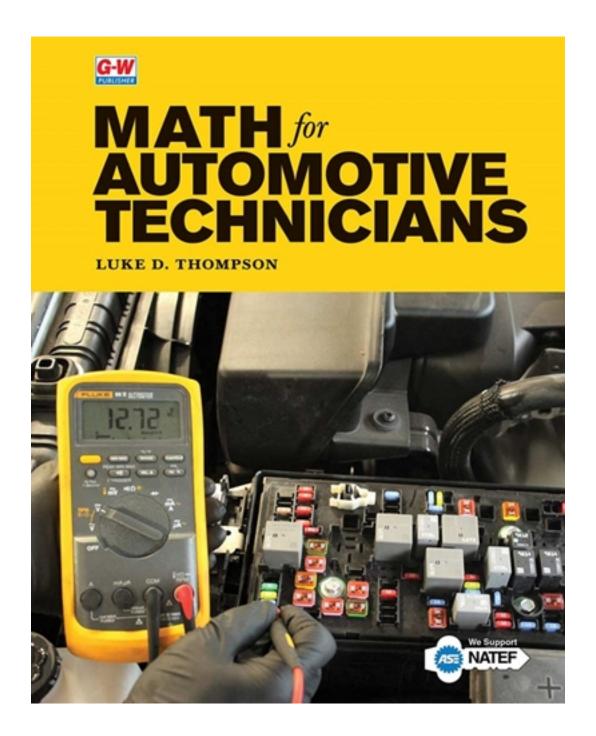
Test Bank for Math for Automotive Technicians 1st Edition by Thompson

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Test Bank

Unit 1 Basic Math Skills

٨	ΛT	II	T	IPI	Æ	CH	OI	CE.

UL	TIPLE CHOICE		
1.			pair shop performed service on 27 compact cars, 18 midsize sedans, ate the total number of vehicles serviced last week.
	ANS: B	PTS:	1
2.		802 for	and earned four paychecks last month. The paycheck values were week two, \$793 for week three, and \$813 for week four. Calculate the the technician.
	ANS: A	PTS:	1
3.			professional mechanic's tools. She plans to pay \$175 this week toward much she will owe after this payment is applied to her account.
	ANS: C	PTS:	1
4.	driven 81,934 miles	and the	er change is recommended at 75,000 miles. The vehicle has been transmission fluid and filter change has not been performed. Calculate vehicle is for the transmission fluid and filter service.
	ANS: D	PTS:	1
5.	•	rpm. Ca er cylin er cylin er cylin	der der der

6. The intake lobe height on a camshaft is 44.320 mm and the exhaust lobe height is 43.989 mm. Calculate how much larger the intake lobe is on the camshaft compared to the exhaust lobe. A. 0.331 mm

- B. 0.339 mm
- C. 0.345 mm
- D. 0.495 mm

ANS: A PTS: 1

- 7. A 2 1/2" lowering spring kit is being installed on a coupe. The starting ride height for the front wheel is 27 5/8". Calculate the expected ride height after the lowering kit is installed.
 - A. 24 3/16"
 - B. 25 1/8"
 - C. 25 3/8"
 - D. 26 1/4"

ANS: B PTS: 1

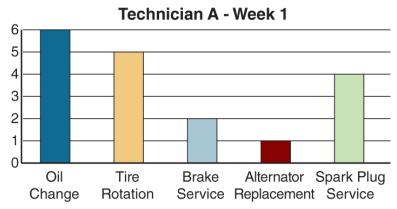
- 8. If a custom wheel measures 7" wide, what is the wheel width in mm (25.4 mm in 1")?
 - A. 172.3 mm
 - B. 177.8 mm
 - C. 182.35 mm
 - D. 189.5 mm

ANS: B PTS: 1

- 9. An air conditioning system requires 1.2 pounds of refrigerant. Calculate the amount of refrigerant required in kilograms (one pound is equal to 0.453 kilograms).
 - A. 0.4783 kg
 - B. 0.5436 kg
 - C. 0.5978 kg
 - D. 0.6173 kg

ANS: B PTS: 1

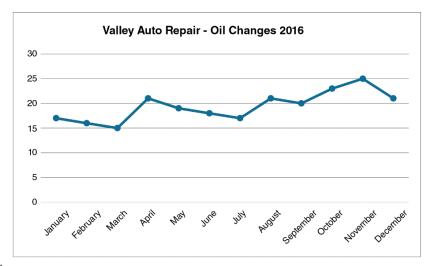
10. Analyze the graph shown. Identify which vehicle service procedure Technician A performed 4 times during Week 1.



- A. Spark Plug Service
- B. Alternator Replacement
- C. Tire Rotation
- D. Brake Service

ANS: A PTS: 1

11. Analyze the graph shown. Identify the month when 20 oil changes were performed.



- A. February
- B. July
- C. August
- D. September

ANS: D PTS: 1

- 12. Use the order of operations to solve the following formula: x = 9(13 4) + 7(15 5)
 - A. 116
 - B. 151
 - C. 324
 - D. 754.6

ANS: B PTS: 1

13. Use the order of operations to solve the following formula:

$$x = \frac{96 - 16}{8 \times 5} + 20^2$$

- A. 98
- B. 156
- C. 350
- D. 402

ANS: D PTS: 1

14. Use the tape measure scale to determine the measurement as indicated by the red line.



- A. 19 3/8"
- B. 19 5/16"
- C. 19 9/16"
- D. 19 15/16"

ANS: C PTS: 1

15. The cylinder bore diameter specification range for a particular engine is 88.153 mm–88.159 mm. Analyze the measurements shown in the chart and determine which cylinder bore is out of specification.

•	uu on.				
	Disc Brake Specifications				
	Cylinder One	88.154 mm			
	Cylinder Two	88.158 mm			
	Cylinder Three	88.151 mm			
	Cylinder Four	88.158 mm			

- A. Cylinder One
- B. Cylinder Two
- C. Cylinder Three
- D. Cylinder Four

ANS: C PTS: 1

- 16. 9 + 14 = ____
 - A. 23
 - B. 24
 - C. 25
 - D. 26

ANS: A PTS: 1

- 17. 267 + 1,367 =
 - A. 1,599
 - B. 1,603
 - C. 1,620
 - D. 1,634

ANS: D PTS: 1

18. 126 - 38 =

- A. 85
- B. 88
- C. 91
- D. 99
- ANS: B
- PTS: 1
- 19. 47 61 =
 - A. -12
 - B. -14
 - C. -16
 - D. -21
 - ANS: B PTS: 1
- 20. $12 \times 8 =$
 - A. 48
 - B. 96
 - C. 98
 - D. 144
 - ANS: B PTS: 1
- 21. $16 \times 21 =$
 - A. 298
 - B. 299
 - C. 321
 - D. 336
 - ANS: D
- PTS: 1
- 22. $54 \div 9 =$
 - A. 5
 - B. 6
 - C. 7
 - D. 8
 - ANS: B PTS: 1
- 23. 265.44 + 349.78 = ____
 - A. 605.13
 - B. 606.38
 - C. 615.22
 - D. 619.43
 - ANS: C
- PTS: 1
- 24. 47.708 + 51.387 = ____
 - A. 99.013
 - B. 99.026
 - C. 99.045
 - D. 99.095
 - ANS: D
- PTS: 1
- 25. 236.34 12.87 =

- A. 223.47
- B. 225.87
- C. 226.12
- D. 229.09

ANS: A

PTS: 1

- 26. 38.768 21.334 =
 - A. 15.980
 - B. 17.434
 - C. 18.903
 - D. 19.330

ANS: B

PTS: 1

- 27. 2.5 × 1.7 = ____
 - A. 3.25
 - B. 3.50
 - C. 3.75
 - D. 4.25

ANS: D

PTS: 1

- 28. $7.9 \times 4.5 =$
 - A. 33.90
 - B. 34.12
 - C. 35.55
 - D. 36.66

ANS: C

PTS: 1

TRUE/FALSE

29. The fraction 5/25 has been reduced to lowest terms.

ANS: F

PTS: 1

30. According to the table, a left front brake disc measured at 26.38 mm thickness is within specification.

Disc Brake Specifications				
Front Pad Thickness (new)	12.0 mm			
Front Pad Thickness (minimum)	1.0 mm			
Front Disc Thickness (new)	28.00 mm			
Front Disc Thickness (minimum)	26.50 mm			

ANS: F

PTS: 1

31. The red line indicates a measurement of 56 1/8" on the tape measure scale.



ANS: T PTS: 1

32. If a high-voltage battery in a hybrid vehicle produces 240 volts and is made up of 80 cells wired in series, each cell produces 3 volts.

ANS: T PTS: 1

33. If the left front brake disc measures 0.978" and the right front brake disc measures 0.983", the left disc is thicker.

ANS: F PTS: 1

34. If an eight-cylinder engine requires eight spark plugs and spark plugs cost \$8.79 each, the total cost of the spark plugs for this engine will be \$69.62.

ANS: F PTS: 1

35. If a dealership service department uses 24 cans of spray brake cleaner per week, it will use 1,386 cans in 52 weeks (1 year).

ANS: F PTS: 1

36. If a repair shop has 7 cases of 10W-30 full-synthetic oil in stock with 12 bottles in each case, the shop has a total of 84 bottles of this 10W-30 oil in stock.

ANS: T PTS: 1

37. 29.7 divided by 3.3 is 9.2.

ANS: F PTS: 1

38. A right front tire with 4/32'' of tread depth has less remaining tread depth than a left front tire with 6/32'' of tread depth.

ANS: T PTS: 1

COMPLETION

39.	45 + 83 =
	ANS: 128
	PTS: 1
40.	56 + 128 =
	ANS: 184
	PTS: 1
41.	35 – 21 =
	ANS: 14
	PTS: 1
42.	546 – 378 =
	ANS: 168
	PTS: 1
43.	5 × 9 =
	ANS: 45
	PTS: 1
44.	125 × 15 =
	ANS: 1,875
	1875
	PTS: 1
45.	18 ÷ 2 =
	ANS: 9
	PTS: 1
46.	125 ÷ 5 =
	ANS: 25
	PTS: 1
47.	180 ÷ 15 =
	ANS: 12

	PTS: 1		
18.	8.8 ÷ 2.0 =		
	ANS: 4.4		
	PTS: 1		
19.	27.3	29.4	(< or > or =)
	ANS: < less than		
	PTS: 1		
50.	7/8	9/16	(< or > or =)
	ANS: > greater than		
	PTS: 1		