## Answer

$8+1=9$ tables
2. 2
3. 5.40
4. $\mathrm{A}=56$
5. $114 \div 2=57$
$285 \div 57=5$
6. $24 \div 6=4$
$2(4+6)=20 \mathrm{ft}$
7. $6 \times 2 \times 3.14 \times 50 \div 12=157 \mathrm{ft}$
8. $85 \times 4=340$
$88 \times 5=440$
$440-340=100$
9. $30 \frac{3}{4}-12 \frac{5}{8}=18 \frac{1}{8}$ pounds
10. $800 \times 45 \%=800 \times .45=\$ 360.00$
11. $57-6 \times 6=21$
$21 \times 2 \div 6=7$ (length of AD)
$7 \times 7=49$
12. Brian:
$\frac{1}{10} \times 300=30$
$50+30=80$
13. Alex: $\frac{1}{6} \times 300=50$

Brian: 80
Calvin:
300-50-80=170
$170 \div 2=85$
$85+10=95$
14. $2(2+3)=10$ (people each table)
$40 \div 10=4$ tables
15. $40-4=36$
$36 \div 6=6$ tables

16. $40-6=34$
$34 \div 4=8 \mathrm{R} 2$

17. $48 \div 4=12$
$12 \div 3=4$
18. $4 \times 12=48$
19. C
20. C
21. C
22. A
23. B

$$
\begin{aligned}
& \frac{98}{99}=1-\frac{1}{99} \\
& \frac{100}{101}=1-\frac{1}{101}
\end{aligned}
$$

24. B
$\frac{970}{99}=10 \times \frac{97}{99}=10 \times\left(1-\frac{2}{99}\right)$
$\frac{990}{101}=10 \times \frac{99}{101}=10 \times\left(1-\frac{2}{101}\right)$
25. B
$10+20+30+40+50$
$=10 \times(1+2+3+4+5)$
26. C
27. A
28. D
29. $1 \frac{3}{4} \times 4 \times 3=21$ hours
30. $120 \div 2=60$
$60 \div 3=20$ (width)
$20 \times 2=40$ (length)
$20 \div 2=10$ (radius)
$10^{2} \pi=314$
$2 \times 314=628$ (two circles)
$20 \times 40=800$
$800-628=172$
31. A

32. 


33.

34.

35.

36.

37.

38.

39.

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40.

41.
42. D
$20,20,17,17,14,14,11$,

$$
\begin{array}{llllllll}
-0 & -3 & -0 & -3 & -0 & -3 & -0 & -3
\end{array}
$$

43. C

$$
\begin{gathered}
1.5, \quad 2.3, \quad 3.1, \quad 3.9 \\
+.8+.8+.8
\end{gathered}
$$

44. B

This is a multiplication series; each number is 3 times the previous number.
45. C

The first two letters, $P Q$, are static. The third letter is in alphabetical order, beginning with R . The number series is in descending order beginning with 5.
46. B
$14,14,26,26,38,38,50,50,62$

$$
+0+12
$$

47. $12 \div 2=6$
48. $25+30=55$
$55 \div 7=7 \mathrm{R} 6$
Saturday $=6$ days earlier than Friday
49. 6 min
50. 9 min
51. $\frac{40}{50}=\frac{4}{5}$
$\frac{4}{5} \times 3=2.4 \mathrm{~min}$
52. $16+6=22$ (cups)
53. $160 / 800=0.2=20 \%$
54. Reed: 83 TDs

Rice: 160 TDs
55. 1
56. $\frac{7}{8}$
57. 55
58. 120
59. 49
60. $4\left(\frac{1}{2} \times 6 \times 4\right)=48$
or
$\frac{1}{2}(12 \times 8)=48$ since the (largest) rectangle has an area of 96 and the each triangle is half of a (smaller) rectangle in area.

61. $75-11-15-5=44$
62. There are 7 students ( 4 girls and 3 boys). From Alan's eyes, there are 2 boys, so the girls are twice the number of the boys. From Betty's eyes, there 3 girls, so there are the same number of girls and boys.
63. $1 \frac{3}{4}+2 \frac{1}{6}=3 \frac{11}{12} \mathrm{mi}$
64. 4 books
65. Brian: $\$ 2.00$

Alex: $\$ 6.00$
66. Charlie: $90 \div 9=\$ 10$

Brian: $2 \times$ Charlie $=\$ 20$
Alex: $3 \times$ Brian $=\$ 60$
67. Charlie: $540 \div 9=\$ 60$

Brian: $2 \times$ Charlie $=\$ 120$
Alex: $3 \times$ Brian $=\$ 360$
68. $-\frac{1}{7}=\frac{-1}{7}=\frac{1}{-7}$
69. 3

## GT5 (Fall, 2018) lssue 3

70. 0.9
71. 88.9
72. 521.6
73. 8.26
74. $25 \%$
75. $50 \% \times \square=10$
$0.5 \times \square=10$
$\square=20$
76. 9999
77. 16
78. 12.12
79. 
80. 49
81. 0.192
82. 5
83. 59.8
$\begin{array}{r}2 \left\lvert\, \begin{array}{r}120 \\ 2 \mid 60 \\ 2 \mid 30 \\ 3 \left\lvert\, \frac{1 \quad 5}{5}\right.\end{array}\right. \\ \hline\end{array}$
84. $120=2 \times 2 \times 2 \times 3 \times 5=2^{3} \times 3 \times 5$
85. 14.62
86. 750
87. $40 \div 30=1.33 \ldots=133 \%$
88. $1 \frac{1}{4}: 2 \frac{1}{2}=1: 2$
$3 \times 2=6$ cups
89. Julio $=15$

Erin $=30$
Kesha $=37$
Total $=82$
90. (a) 47-3-14-1-14=15
(b) $97-47=50$ B.C.
91. $6849-6750=99$
92. $10 \times 10 \times 10 \times 10=10,000$
93. 25
94. $144 \div 24=6 \mathrm{gal}$
95. $1-\frac{1}{2}=\frac{1}{2}$ (one half left)
$\frac{1}{2}-\frac{1}{3}=\frac{1}{6}$
30 pages account for $\frac{1}{6}$ of the book.
$30 \div \frac{1}{6}=180$ pages
96. The decrease of 8 fewer pencils results in a difference of

$$
8.45-6.05=2.40
$$

Each pencil costs

$$
2.40 \div 8=0.30
$$

Therefore, 2 dozen pencils cost $24 \times 0.30=7.20$.
We conclude that a pen cost $8.45-7.20=\$ 1.25$.

