## Answer 1

- 1. {1, 5, 19, 95}
- $2. \{1, 7, 13, 91\}$
- 3. {1, 3, 31, 93}
- 4. {1, 2, 7, 14, 49, 98}
- 5. {1, 2, 4, 23, 46, 92}
- 6. {1, 3, 9, 11, 33, 99}
- 7. {1, 2, 3, 6, 17, 34, 51, 102}
- 8. {1, 2, 4, 8, 11, 22, 44, 88}
- 9. {1, 2, 4, 5, 10, 20, 25, 50, 100}
- 10. { 41, 43, 47, 53, 59 }
- 11.  $0.3 = \frac{3}{10}$
- 12.  $\frac{25}{100} = \frac{1}{4}$
- 13.  $5.5 = 5\frac{5}{10} \xrightarrow{reduce} 5\frac{1}{2} = 51/2$
- 14.  $1.25 = 1\frac{25}{100} \xrightarrow{reduce} 1\frac{5}{20} \xrightarrow{reduce} 1\frac{1}{4} = 11/4$
- 15.  $\frac{35}{100} = \frac{7}{20} = \frac{7}{20}$
- 16.  $0.2 = \frac{1}{5} = 1/5$
- 17. **0.7** =  $\frac{7}{10}$  = 7/10
- 18.  $0.4 = \frac{2}{5} = 2/5$
- 19.  $0.9 = \frac{9}{10} = 9/10$
- 20.  $3.75 = 3\frac{3}{4} = 33/4$
- 21. 30
- 22. 18
- 23. 8
- 24. 40
- 25. 5
- 26. 9
- 27. 6
- 28. 3
- 29. 12
- 30. 50
- 31. 0.0024
- 32. 0.0021
- 33. 0.015
- 34. 0.0012
- 35. 0.021
- 36. 0.15
- 37. 0.0015
- 38. 0.021

- 39. 0.018
- 40. 0.0018
- 41. 64
- 42. 256
- 43. 125
- 44. 625
- 45. 100
- 46. 1000
- 47. 10000
- 48. 400
- 49. 8000
- 50. 160000
- $52. \frac{5\frac{4}{24}}{+ \frac{3}{24}} = 5\frac{7}{24}$
- $53. \quad \begin{array}{rr} 1 & \frac{9}{24} \\ & \frac{16}{24} \end{array} = \frac{17}{24}$
- $54. \quad \frac{4\frac{15}{20}}{-1\frac{6}{20}} = 3\frac{9}{20}$

- 61. 2/5

## MAP 250 (T1) Issue 10

- 62. 3/14
- 63. 4/27
- 64. 5/42
- 65. 6/17
- 66. 7/58
- 67. 8/33
- 68. 9/64
- 69. 9/17
- 70. 7/6
- 71.  $16 + (12-8) \times (7-3) = 32$
- 72.  $30 \times (1 2/3) = 10$
- 73.  $90 \times (1 5/9) = 40$
- 74.  $12 \times (2+3/4) = 33$
- 75.  $52/(9-5) \times 5 = 65$
- 76.  $5280 \times (1 1/4) = 3960$
- 77.  $\frac{1}{4} \times 16 \times 6 = 24$  ounces
- 78. (a)  $10\pi$  (b)  $25\pi$
- 79. (a) (7+3)/2 = 5
  - (b)  $6 \times (7+3)/2 = 30$
- 80.  $3 \times 6/(3/4) = 24$
- 81.  $2\times(16^2)/16 = 32$
- 82.  $2 \times (12^2)/24 = 12$
- 83.  $2 \times (24^2)/36 = 32$
- 84.  $2\times(18^2)/54 = 12$
- 85. (a)  $(-3)^2 = 9$ 
  - (b)  $30^2 = 900$
  - (c)  $0.3^2 = 0.09$
- 86. Black:  $9.5 \times 2 = 19$ Gray:  $11 \times 1 = 11$ 19 + 11 = 30

- 87.  $5 \times 2 \times 10 = 100$   $5 \times 10 \div 2 \times 3 = 75$  $100 + 75 = \underline{175}$
- 88. Five different sizes 1×1, 2×2, 3×3, 4×4, 5×5
- 89. 27 of them

1×1	13
2×2	4
3×3	5
4×4	4
5×5	1
Total	27

- 90. 2, 3, and 6
- 91. 111...112
- 92. E

111...112 is divisible by 2, 4, 6, and 8.

93. Reduce the overlap by 1, then the total length will increase by 1.

$$56 - 50 = 6$$

$$10 - 6 = 4 \text{ cm}$$

94. 
$$3 + 2 + 2 = 7$$

95. <u>5</u>

Let *x* be the number to start with.

$$x + 1$$
 and  $2x + 7$ 

Apply Euclidean algorithm.

$$\begin{array}{c|cccc}
spry & \underline{\text{Euclidean algo}} \\
x+1 & 2x+7 & 2 \\
\hline
& 2x+2 & 5
\end{array}$$