

Unit R2.1

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|-------------|---------------|-------------|-----------|--------------|----------|
| 1. a) 7.3   | b) 324.7      | 2. a) 70    | b) 33     | 3. a) 2      | b) 61    |
| 4. no       | 5. a) 25.9    | b) 48.13    | c) 17.4   | 6. a) 500.47 | b) 18.16 |
| 7. b        | 8. a) 328     | b) 1,410    | 9. a) 264 | b) 14        |          |
| 10. a) 115  | b) 10         | c) 595      | d) 60     | e) 450       | f) 10    |
| 11. yes     | 12. 130       | 13. a) 10.5 | b) 0.078  | c) 0.300     |          |
| d) 0.704    | 14. a) 6.5    | b) 1.638    | 15. b     | 16. a) 6.05  | b) 9.27  |
| 17. \$25.50 | 18. 11.16 sec |             |           |              |          |

Unit R2.2

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|---------------------------|------------------------|--------------------------|----------------------------|
| 19. c) 13.77              | 20. \$12.5             | 21. chicken              | 22. a) $10^1$ ; 3,270      |
| b) $10^3$ ; 7,000         | c) $10^2$ ; 200        | 23. a) 7,000             | b) 8571.43                 |
| c) $10^1$ ; 10            | 24. a) 4 ÷ 0.1; 40     | b) 10 ÷ 0.3; 33.33       |                            |
| b) 0.30                   | c) 27                  | 25. 0.03 mile; 0.18 mile | 26. a) 4 ÷ 0.1; 40         |
| 27. a) 17                 | b) 19                  | 28. a) 10,475            |                            |
| 29. a) 18                 | b) 10                  | 30. a) 17.7              | b) 113.5                   |
| 31. \$12.2; \$36.36       | 32. a) 8               | b) -6                    | 33. a) $9.754 \times 10^6$ |
| b) $1.289 \times 10^{-4}$ | c) $6.185 \times 10^9$ | 34. \$7.20               | 35. 20 yrs                 |

Unit R2.3

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|------------|---------|--------------|---------------|------------|
| 36. a) yes | b) no   | 37. a) false | b) true       | 38. 24     |
| 39. a) 12  | b) 8    | c) k=16      | d) r=5        | 40. 17     |
| 41. a) 26  | b) 35   | c) k=167     | d) p=4        | 42. b      |
| 44. a) 8   | b) 7    | c) k=16      | d) m=6        | 43. 41     |
| c) n=63    | d) s=99 | 46. 9 meters | 47. a) $20^0$ | 45. a) 180 |
|            |         |              |               | b) 352     |
|            |         |              |               | b) 9 ft    |
|            |         |              |               | 48. 26 yrs |

Unit R2.4

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| 49. a) 1,2,3,6,9,18                         | b) 1,2,3,4,6,8,12,24                       |
| 50. a) 5,10,15,20,25,30,35,40,45,50         | b) 12,24,36,48,60,72,84,96,108,120         |
| 51. a) divisible by 2,3,4,6                 | b) 2,4,5,6,10                              |
| b) prime                                    | c) composite                               |
| 54. a) $2 \times 2 \times 3 \times 7$       | b) $2 \times 2 \times 2 \times 3 \times 5$ |
| 56. a) 6                                    | b) 3                                       |
|   | c) 2                                       |
| 57. no; $2 \times 3^2 = 18$                 | 58. a) $\frac{5}{6}$                       |
|   | b) $\frac{1}{3}$                           |
| 60. a) 20                                   | b) 18                                      |
| 61. a) numerator:16                         | c) 16                                      |
| d) denominator:35                           | d) 5                                       |
|   | e) 2                                       |
| 62. $\frac{1}{2}, \frac{1}{2}, \frac{1}{2}$ | c) numerator:24                            |
| 63. a) $\frac{8}{15}$                       | b) $1\frac{13}{14}$                        |
|   | c) $\frac{4}{11}$                          |
| 64. $\frac{4}{7}; \frac{3}{7}$              |  |
| 65. a) incorrect                            | b) correct                                 |