

Unit R6.1

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|-----------------------|-------------------|-------------|------------|
| 1. a) subtract 5; 2 | b) add 8; 8 | 2. a) -8 | b) $m=150$ |
| 3. a) $n=3m+1$ | b) $q=2p-1$ | 4. 23 | |
| 5. a) $y=x+6$; 6,7,8 | b) $z=5y$; 25,35 | | |
| 6. a) 4,5,6,7,8,9 | b) 12,16,20,24 | | |
| 8. 8 in; 16 in | 9. a) -7,-2,3,8 | b) 5,3,1,-1 | |
| 10. b | 11. a) yes | b) no | c) yes |

Unit R6.2

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|-------------------|-------------------|-----------------|---------------|
| 12. 9 | 13. a) 3 lb | b) 6 qt | c) 4 mi |
| d) 112 oz | e) 88 pt | f) 9 ft | 14. 19.2 cups |
| 15. 14.4 inch | 16. a) 1,100 cm | b) 4.5 m | c) 0.6 kg |
| d) 13,500 | e) 0.049 kg | f) 10.7 cm | 17. d |
| 18. no; 34,000 | 19. 1 feet | 21. a) 54.42 cm | |
| b) 14.4 km | c) 79.2 lb | d) 90.96 | e) 42.45 l |
| f) 116.16 lb | 22. 21496.02 inch | 23. 2.04 liter | |
| 24. a) 12:20 P.M. | b) 8:42 A.M. | c) 10 hr 54 min | |
| 25. 9 hr 38 min | 26. 3:04 A.M. | 27. 1.49 mile | |
| 28. 74.8 lb | | | |

Unit R6.3

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|----------------------------|--------------------------|---------------------|-----------|
| 29. a) 24 m | b) 32 in | c) 36 ft | 30. 30 yd |
| 31. 56 sq yd | 32. a) 578 cm^2 | b) 63 ft^2 | 33. 9 m |
| 34. 48 sq inch | 35. 24 ft^2 | 36. 7 inch | |
| 37. a) 351.68 inch | b) 301.44 feet | 38. 8 units | |
| 39. a) 452.16 m^2 | b) 2461.76 cm^2 | | |

Unit R6.4

41. a) Rectangular prism
 Vertices: A, B, C, D, M, N, P, Q
 Edges: AB, BC, CD, AD, MN, NP, PQ, QM, AM, BN, CP, DQ
 Faces: ABCD, CDQP, MNPQ, ABNM, AMQD, BNPC
- b) Pentagonal prism
 Vertices: P, Q, R, S, T, U, V, W, X, Y
 Edges: PQ, QY, YX, XW, WP, RS, ST, TU, UV, VR, PV, QR, SY, XT, UW
 Faces: WXYQP, UVRST, PQRV, QRSY, YSTX, XTUW, UVPW
42. a) rectangular prism b) cylinder
43. 5 faces
44. 86 sq in
45. 836 cm^2
46. a) 120 cm^3 b) 240 ft^3
47. 72 cubic meter
48. a) 1356.48 ft^3 b) 960 cm^3
49. a
50. 4 m
51. a) S.A. = 52 ft^2 ; volume = 24 ft^3
 b) S.A. = 44 yd^2 ; volume = 40 yd^3
52. S.A = 2,350 in^2 ; volume = 7,500 in^3