

Unit 2.1

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|---------------------------------|--------|----------|--------|
| 1. a) 44 | b) 115 | c) 64 | d) 36 |
| e) 84 | f) 47 | g) 2,077 | h) 214 |
| i) 434 | j) 135 | k) 28 | l) 370 |
| m) 730 | n) 585 | | |
| 2. 55 | 3. 43 | 4. a | 5. yes |
| 6. $10+(33+12)=(10+33)+12$; 55 | | | |
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Unit 2.2

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|---------------|---------------|----------------|------------------|
| 1. a) 99,409 | b) 2,944 | c) 117,749,980 | d) 156,140 |
| e) 68,445,690 | f) 937,280 | g) 28,316,916 | h) 239,004 |
| i) 697,742 | j) 8,503,372 | k) 17,178,730 | l) 7,216,230 |
| m) 383,225 | n) 4,153,591 | o) 37,482,603 | p) 1,368,010,740 |
| 2. 218,408 | 3. 74,083,450 | 4. b | 5. 34,424,385 |
| 6. 25 | | | |
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Unit 2.3

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|---------------------------|------------------|----------------------------|----------------|
| 1. a) inverse | b) commutative | c) associative | d) identity |
| e) inverse | 2. a) 59 | b) 36 | c) 117 |
| d) 268 | 3. a) 44; 33; 77 | b) 25; 25 | c) 7; 24 |
| d) -28; 0 | e) 36; 14; 50 | f) 30; 40; 130 | 4. associative |
| 5. $45+6=51$ | 6. $64-32=32$ | 7. d | |
| 8. $19,365+23,879=43,244$ | | 9. $22+(33+44)=(22+33)+44$ | |
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Unit 2.4

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| 1. a) 10 | b) 40 | c) 600 | d) 700 |
| e) 2,670 | f) 6,100 | g) 49,000 | h) 91,500 |
| i) 650,000 | j) 700,000 | | |
| 2. a) 27 | b) 8.20 | c) 0.460 | d) 0.900 |
| e) 615 | f) 94.010 | g) 703 | h) 453 |
| i) 0.62 | j) 16 | | |
| 3. a) 57,364,500; 57,365,000; 57,000,000 | | | |
| b) 141,526,200; 141,526,000; 142,000,000 | | | |
| c) 825,641,900; 825,642,000; 826,000,000 | | | |
| d) 362,854,100; 362,854,000; 363,000,000 | | | |
| e) 6,317,295,600; 6,317,296,000; 6,317,000,000 | | | |
| 4. 85° F | 5. 240,000 L | 6. c | 7. 38,600,000 |
| 8. 3.580 cm | | | |
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Unit 2.5

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| 1. a) 1,200 | b) 2,000 | c) 12,000 | d) 3,000 |
| e) 5,000 | f) 4,000 | 2. a) 5 | b) 5 |
| c) 18 | d) 28 | e) \$17 | f) 19 |
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3. a) 79,000 b) 17,000 c) \$52 d) 58
 e) \$108,000 f) 89,000 4. 30,000 5. 33 inch
6. d 7. no; about \$45
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Unit 2.6

1. a) 167,279 b) 49,228 c) less than thousand d) yes
2. $62-12=50$; $85+30=115$ 3. $150+(75+25)=(150+75)+25=250$
4. $263,556+104,517+395,185=763,258$ 5. $40,000+2,000$
6. a) 600,000; 1,300,000; 1,800,000 b) 1,900,000 c) no
7. \$14.30; \$14, \$10
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Unit 2.7

1. a) 4.3×10^{13} b) 1.41×10^{12} c) 10^{14} d) 7.32×10^8 e) 4.5×10^{10} f) 2.89×10^{11}
2. a) 200,000 b) 1,500,000,000 c) 403,000,000 d) 38,000,000
 e) 700,00,000,000
3. a) 4.27×10^7 b) 6.66×10^{10} c) 7.78×10^8 d) 3.8×10^8
4. 1.9×10^7
5. 1.11×10^8
6. d
7. 38,000,000,000,000,000
8. No; 3.45×10
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Unit 2.8

1. 9,999,999,999
2. 58,646,800; 28,646,800
3. 9,999,999; 1,000,000
8. b
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