

Unit 13.1

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|----------------------|-------------|-------------------|-------------------|--------------|-------------------|
| 1. a) $\sqrt{\quad}$ | b) \times | c) $\sqrt{\quad}$ | d) $\sqrt{\quad}$ | e) \times | f) $\sqrt{\quad}$ |
| 3. c | 4. a) 8 | b) 3,4,5,0,1,2 | | c) -2,-1,1,2 | |

Unit 13.2

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|-----------------|--------------|-----------------|-------------|--------------|--------------|
| 1. a) $>$ | b) $<$ | c) $<$ | d) $>$ | e) $=$ | f) $>$ |
| g) $>$ | h) $<$ | 2. a) -6,-2,0,3 | | b) -7,-1,5,8 | |
| c) -9,-4,1,3 | d) -8,0,2,4 | e) -5,-3,0,10 | | f) -7,-3,3,7 | |
| 3. a) 1,0,-2,-4 | b) 8,6,-3,-6 | c) 10,9,-3,-7 | d) 3,1,0,-5 | e) 2,0,-1,-8 | f) 7,2,-4,-5 |
| 4. a) -1,-2,-3 | b) 10,12,14 | c) -2,1,3,5 | d) -2,1,2,3 | e) -5,0,10 | |
| 5. 10 | | | | | |
| 6. 6. yes | 7. b | 8. 12 units | | | |

Unit 13.3

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|---|---|--|--|----------|
| 1. $A = -2\frac{3}{4}$, $B = \frac{1}{2}$, $C = 2\frac{1}{4}$ | 3. a) $>$ | b) $<$ | c) $>$ | d) $=$ |
| e) $<$ | f) $>$ | 4. a) $-\frac{1}{4}, \frac{3}{5}, 0, 2$ | b) $-6, -\frac{1}{2}, 1\frac{3}{7}, 6$ | |
| c) $-\frac{9}{8}, \frac{8}{9}, 0, 1$ | d) $\frac{2}{3}, \frac{3}{4}, \frac{4}{5}, 5$ | 5. a) $0, \frac{3}{4}, \frac{6}{11}, -7$ | | |
| b) $2, 0, \frac{4}{3}, -\frac{3}{5}$ | c) $10, \frac{3}{2}, -\frac{1}{8}, -10$ | d) $6, 0, \frac{15}{2}, -7\frac{1}{4}$ | | |
| 6. a) T | b) T | c) F | d) T | 8. c |
| | | | | 9. Sofia |

Unit 13.4

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|---|------------|--------|-------|----------|--------|
| 1. a) 5 | b) 1 | c) -3 | d) -8 | 2. a) -3 | b) -16 |
| c) -5 | d) 17 | e) -20 | f) 9 | g) -35 | h) -27 |
| 3. a) -4 | b) -3 | c) -3 | d) 0 | e) -6 | f) -2 |
| 4. $10+8=18^{\circ}\text{C}$; 2°C , -5°C , $15+(-20)=-5$; $(-12)+(-11)=-23$ | | | | | |
| 5. b | 6. no; -30 | 7. -45 | | | |

Unit 13.5

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|--|-------|-------|--------|----------|--------|
| 1. a) -1 | b) -7 | c) 2 | d) 5 | 2. a) 2 | b) 30 |
| c) -38 | d) 22 | e) 17 | f) -12 | g) 37 | h) -55 |
| 3. a) -3 | b) 6 | c) -4 | d) -3 | e) -7 | f) 1 |
| 4. a) \$500; \$200; -\$600; \$100; \$400; -\$300 | | | | b) \$300 | |
| c) -\$400 | 5. d | 6. 3 | | | |

Unit 13.6

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|------------------------------|-------------------|----------|---------------------|
| 1. a) add 5 | b) add 13 | 2. add 6 | 3. a) -19,0,-5,-3,6 |
| b) -20,-6,-11,4,5 | 4. no; subtract 2 | 5. c | |
| 6. subtract 12; -8,-19,-3,-1 | | | |

Unit 13.7

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| 1. -100°C , -65°C , 15°C | 2. 4,226; 807; 483; 16; -28 | 4. $2\frac{1}{3}, 2\frac{2}{3}, -1\frac{1}{3}, -1\frac{2}{3}$ |
| 5. 27 ft | 6. 5 m | 8. add 12; -7,7,15,68 |