

Unit 21.1

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|-------------------|------------|-----------------|-------------|
| 1. a) subtract; 6 | b) add; 18 | c) subtract; 80 | d) add ; 12 |
| 2. a) m=1 | b) y=4 | c) r=77 | d) y=9 |
| g) x=60 | h) p=50 | i) z=400 | j) x=1 |
| | | | k) y=9 |
| 4. \$7.5 | 5. a | 6. add | 7. yes |

Unit 21.2

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|-----------------------|-------|---------------------|------------|------------|--------------------|
| 1. a) $y=x-3$ | b) 19 | 3. a) $y=x+5$ | b) $b=a+4$ | c) $n=5m$ | d) $q=\frac{p}{4}$ |
| 4. a) $y=7-x$; 10,12 | | b) $y=x+16$; 30,32 | | 5. $y=27x$ | 6. \$567 |
| 7. i) b | ii) c | | | | |

Unit 21.3

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|------------------------------------|---------------------------|------------------------|--------------------|
| 1. a) 2; 11; 26 | b) 13;14; 16 | c) 6; -4; -6 | d) 9; 11; 13; 15.5 |
| 2. a) 2.5; 1.5; 0.5; -0.5; -1.5; 8 | | b) 1; 5; 9; 13; 17; 21 | |
| | c) 11; 17; 23; 29; 35; 41 | d) 2; 4; 7; 11; 17 | 3. c |
| 4. \$15.5 | 6. \$25.5 | | |

Unit 21.4

- 5.
- $y=3x \rightarrow x=15$

Unit 21.5

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|-------------|---------------|--------|-----------|
| 1. a) 5; 9 | b) -2; -6 | 2. yes | 3. $x=-1$ |
| 4. a) 1; -1 | b) -9; -5; -1 | | 6. d |

Unit 21.6

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|---------------------|--------|--|-----------|--------|--------|
| 1. a) yes | b) yes | c) yes | 2. a) yes | b) no | c) yes |
| 3. a) no | b) yes | c) yes | 4. a) no | b) yes | c) no |
| 5. a) \$20 and \$25 | | b) 3 rd and 4 th | c) yes | 6. b | |

Unit 21.7

3. 7 ways 5. 4 ways

Unit 21.8

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|--------------|--------------------|
| 1. \$2.004 | |
| 2. a) $x=9$ | b) $y=9$ |
| 3. a) $y=9x$ | b) $y=\frac{x}{6}$ |
| 4. 67 | |
| 5. 405 m | |
| 7. a) yes | b) yes |
| 8. 6 ways | |