

Unit 13.1

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|--------------------------------------|---------------------------|-----------------------------------|
| 1. a) 1,3,7,21                       | b) 1,2,3,5,6,10,15,30     | c) 1,2,3,4,9,12,18,36             |
| d) 1,2,3,6,7,14,21,42                | e) 1,3,5,9,15,45          | f) 1,2,5,10,25,50                 |
| 2. b) $2 \times 3 \times 3 \times 3$ | c) $2 \times 2 \times 13$ | d) $2 \times 2 \times 3 \times 5$ |
| 3. a) 1,3,9                          | b) 1,2,5                  | c) 1,3,5,15                       |
| 4. yes                               | 5. no                     | 6. c                              |
| 7. yes                               |                           |                                   |

Unit 13.2

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|---------|-------|-------|-------|
| 1. a) 4 | b) 5  | c) 6  | d) 16 |
| 2. a) 3 | b) 8  | c) 10 | d) 45 |
| 3. a) 8 | b) 12 | c) 75 | d) 34 |
| 4. 4    | 5. 6  | 6. d  | 7. 4  |

Unit 13.3

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|-----------------------------|--------------------------------|-----------------------------|----------------------------|----------------------|
| 1. a) $\frac{3}{12} = 0.25$ | b) $\frac{5}{10} = 0.5$        | c) $\frac{8}{100} = 0.08$   | d) $\frac{16}{100} = 0.16$ |                      |
| 2. a) 0.8                   | b) 2.3                         | c) 0.39                     | d) 10.06                   | e) 4.93              |
| f) 0.045                    | g) 0.099                       | h) 7.101                    |                            |                      |
| 3. a) $\frac{6}{10}$        | b) $3\frac{1}{2}$              | c) $\frac{82}{100}$         | d) $\frac{6}{100}$         | e) $9\frac{57}{100}$ |
| f) $30\frac{29}{1,000}$     | g) $61\frac{458}{1,000}$       | h) $88\frac{103}{1,000}$    | 4. $4\frac{17}{100}$       | 5. Mark              |
| 6. b                        | 7. a) $2 + 0.4 + 0.07 + 0.008$ | b) $6 + 0.2 + 0.08 + 0.009$ |                            |                      |

Unit 13.4

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|----------------------|----------------------------|----------|------|
| 1. a) $\frac{6}{10}$ | b) $\frac{35}{100} = 0.35$ | c) right | 5. c |
|----------------------|----------------------------|----------|------|

Unit 13.5

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|---|---|---|
| 1. a) $\frac{3}{20}$ ; 0.25; $2\frac{1}{8}$ | b. $\frac{21}{100}$ ; 0.327; 1.4  | c. $\frac{25}{100}$ ; 0.262; $5\frac{1}{7}$ |
| d) $\frac{12}{15}$ ; 3.55; $4\frac{9}{11}$  | 2. Colton; 0.83   | 3. $\frac{4}{7}$ ; 3.15; $5\frac{1}{3}$     |
| 4. a  | 5. Marcus; Ascending = $0.75, \frac{3}{2}, \frac{8}{9}$ ; Descending = $\frac{8}{9}, \frac{3}{2}, 0.75$ |   |

Unit 13.6

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|----------|--|-------------------------|-----------------------|---------------------------|
| 1. yes   | 2. 225                                   | 3. a) $\$ \frac{37}{2}$ | b) $12\frac{75}{100}$ | 4. no; $1\frac{8}{1,000}$ |
| 6. equal | 7. $7\frac{4}{9}$ ; 7.95; $\frac{35}{4}$ | 8. Jerome               |                       |                           |