Module 2 – Factors and Multiples – Answer Keys

LESSON 2-1

Practice and Problem Solving: A/B

1. 1 and 5
2. 1, 3, 5, and 15
3. 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, and 60
4. 1, 2, 3, and 6
5. 1, 2, 3, 4, 6, and 12
6. 1, 2, 3, 4, 6, 9, 12, 18, and 36
7. 3
8. 4
9. 4
10. 3
11. 5
12. 3
13. $44 + 40 = 4 \times (11 + 10)$
14. $15 + 81 = 3 \times (5 + 27)$
15. $13 + 52 = 13 \times (1 + 4)$
16. $64 + 28 = 4 \times (16 + 7)$
17. Since $6 \times (4 + 5) = 24 + 30$, she can make 6 necklaces with 4 jade beads and 5 teak beads.
18. Since $6 \times (2 + 4 + 5) = 12 + 24 + 30$, 6 tanks can be set up with 2 angel fish, 4 swordtails, and 5 guppies.

LESSON 2-2

Practice and Problem Solving: A/B

1. 3, 6, and 9
2. 7, 14, and 21
3. 12, 24, and 36
4. 200, 400, and 600
5. 2, 4, 6, 8, 10, 12...; 3, 6, 9, 12...; 6
6. 4, 8, 12, 16, 20...; 5, 10, 15, 20...; 20
7. 6, 12, 18, 24, 30, 36, 42...; 7, 14, 21, 28, 35, 42...; 42
8. 2, 4, 6, 8, 10, 12...; 3, 6, 9, 12...; 4, 8, 12...; 12
9. 5, 10, 15...210; 6, 12, 18...210; 7, 14, 21...210; 210
10. 8, 16...360; 9, 18...360; 10, 20...360; 360
11. Cups: 24, 48, 72; napkins: 18, 36, 54, 72; the LCM is 72, so 3 packages of cups and 4 packages of napkins will be needed.

MODULE 2 Challenge

1. 70
2. 7
3. 10
4. 56
5. 8
6. 7
7. 728
8. 104
9. 91
10. 56
11. 26
12. 2
13. 1
14. 3,640
15. 364
16. 520
17. 455
18. 280
19. 140