



Answer Key

# GRADE 1 • MODULE 1

Sums and Differences to 10

## Lesson 1

### Sprint

#### Side A

- |       |        |        |
|-------|--------|--------|
| 1. 2  | 11. 5  | 21. 9  |
| 2. 3  | 12. 4  | 22. 10 |
| 3. 4  | 13. 6  | 23. 9  |
| 4. 3  | 14. 8  | 24. 8  |
| 5. 1  | 15. 7  | 25. 10 |
| 6. 4  | 16. 9  | 26. 7  |
| 7. 5  | 17. 8  | 27. 10 |
| 8. 4  | 18. 10 | 28. 9  |
| 9. 6  | 19. 7  | 29. 8  |
| 10. 7 | 20. 6  | 30. 10 |

#### Side B

- |       |        |        |
|-------|--------|--------|
| 1. 1  | 11. 8  | 21. 9  |
| 2. 2  | 12. 6  | 22. 10 |
| 3. 1  | 13. 5  | 23. 10 |
| 4. 4  | 14. 7  | 24. 10 |
| 5. 3  | 15. 6  | 25. 7  |
| 6. 5  | 16. 8  | 26. 8  |
| 7. 4  | 17. 9  | 27. 10 |
| 8. 5  | 18. 7  | 28. 9  |
| 9. 7  | 19. 8  | 29. 9  |
| 10. 6 | 20. 10 | 30. 9  |

**Problem Set**

- Group of 5 circled  
8, 3
- Group of 5 circled  
6, 1
- Group of 5 circled  
7, 2
- Group of 5 circled  
9, 4
- 5, 3
- 5, 1
- 5, 1, 6
- 5, 2, 7
- 5, 5, 10
- 5, 3, 8
- 5, 4, 9
- 5, 0, 5

**Exit Ticket**

- 9, 5, 4
- 7, 5, 2

**Homework**

- Group of 5 circled  
9, 4
- Group of 5 circled  
7, 2
- Group of 5 circled  
10, 5
- Group of 5 circled  
5, 5, 0
- 5, 3, 8
- 5, 1, 6
- 5, 2, 7
- 5, 5, 10
- 5, 3, 8
- 1, 5, 6
- 5, 2, 7
- 5, 5, 10
- Group of 5 circled  
8, 5, 3
- Group of 5 circled  
6, 5, 1
- Group of 5 circled  
9, 5, 4
- Group of 5 circled  
7, 5, 2

## Lesson 2

### Number Bond Dash

- |       |       |       |
|-------|-------|-------|
| 1. 1  | 12. 4 | 23. 4 |
| 2. 0  | 13. 3 | 24. 2 |
| 3. 1  | 14. 2 | 25. 3 |
| 4. 2  | 15. 1 |       |
| 5. 1  | 16. 0 |       |
| 6. 2  | 17. 1 |       |
| 7. 3  | 18. 2 |       |
| 8. 1  | 19. 3 |       |
| 9. 4  | 20. 4 |       |
| 10. 3 | 21. 0 |       |
| 11. 5 | 22. 5 |       |

### Problem Set

- |                        |  |
|------------------------|--|
| 1. 6, parts will vary. | 6. 8, parts will vary.                     |
| 2. 6, parts will vary. | 7. 9, parts will vary.                     |
| 3. 7, parts will vary. | 8. 9, parts will vary.                     |
| 4. 7, parts will vary. | 9. 9, parts will vary; 9, parts will vary. |
| 5. 8, parts will vary. |  |

### Exit Ticket

- 6, parts will vary.
- 7, parts will vary.
- 7, parts will vary.
- 10, parts will vary.

**Homework**

1. 6, parts will vary.
2. 7, parts will vary.
3. 9, parts will vary.
4. 8, parts will vary.
5. 7, parts will vary.
6. 6, parts will vary.
7. 8, parts will vary.
8. 8, parts will vary.
9. 6, parts will vary; 6, parts will vary.
10. 7, parts will vary; 7, parts will vary.

## Lesson 3

### Number Bond Dash

- |       |       |       |
|-------|-------|-------|
| 1. 1  | 12. 4 | 23. 4 |
| 2. 0  | 13. 3 | 24. 2 |
| 3. 1  | 14. 2 | 25. 3 |
| 4. 2  | 15. 1 |       |
| 5. 1  | 16. 0 |       |
| 6. 2  | 17. 1 |       |
| 7. 3  | 18. 2 |       |
| 8. 1  | 19. 3 |       |
| 9. 4  | 20. 4 |       |
| 10. 3 | 21. 0 |       |
| 11. 5 | 22. 5 |       |

### Problem Set

- |                                   |                       |
|-----------------------------------|-----------------------|
| 1. 1 more drawn; 8; 8             | 5. 1 more drawn; 9; 9 |
| 2. 1 more drawn; 10; 10           | 6. 1 more drawn; 8; 8 |
| 3. 1 more drawn; 7; 7;<br>7, 6, 1 | 7. 1 more drawn; 7; 7 |
| 4. 1 more drawn; 6; 6;<br>5, 1, 6 | 8. 1 more drawn; 6; 6 |
|                                   | 9. 8, 7, 1; 8; 7, 8   |

### Exit Ticket

- 1 more drawn; 10; 10; 10, 9, 1
- 1 more drawn; 7; 6, 7; 7, 6, 1

**Homework**

1. 1 more drawn; 10; 10;  
10, 9, 1
2. 1 more drawn; 8; 8;  
8, 7, 1
3. 1 more drawn; 6; 6;  
6, 5, 1
4. 1 more drawn; 9; 8, 9;  
9, 8, 1
5. 6; 6; 6, 5, 1
6. 9; 8, 9; 8, 1, 9

## Lesson 4

### Sprint

#### Side A

- |       |        |        |
|-------|--------|--------|
| 1. 4  | 11. 7  | 21. 8  |
| 2. 3  | 12. 8  | 22. 9  |
| 3. 4  | 13. 8  | 23. 10 |
| 4. 5  | 14. 9  | 24. 11 |
| 5. 6  | 15. 9  | 25. 11 |
| 6. 7  | 16. 10 | 26. 9  |
| 7. 6  | 17. 10 | 27. 9  |
| 8. 6  | 18. 8  | 28. 10 |
| 9. 8  | 19. 8  | 29. 10 |
| 10. 7 | 20. 9  | 30. 13 |

#### Side B

- |       |        |        |
|-------|--------|--------|
| 1. 3  | 11. 6  | 21. 11 |
| 2. 2  | 12. 8  | 22. 9  |
| 3. 3  | 13. 8  | 23. 10 |
| 4. 4  | 14. 7  | 24. 11 |
| 5. 5  | 15. 7  | 25. 10 |
| 6. 6  | 16. 9  | 26. 10 |
| 7. 5  | 17. 9  | 27. 9  |
| 8. 5  | 18. 10 | 28. 9  |
| 9. 6  | 19. 10 | 29. 10 |
| 10. 6 | 20. 11 | 30. 14 |



**Problem Set**

Answers will vary.

**Exit Ticket**

Answers will vary.

**Homework**

Answers will vary.

## Lesson 5

### Number Bond Dash

- |       |       |       |
|-------|-------|-------|
| 1. 0  | 12. 2 | 23. 2 |
| 2. 1  | 13. 4 | 24. 4 |
| 3. 2  | 14. 3 | 25. 3 |
| 4. 1  | 15. 4 |       |
| 5. 0  | 16. 1 |       |
| 6. 1  | 17. 5 |       |
| 7. 2  | 18. 6 |       |
| 8. 1  | 19. 5 |       |
| 9. 2  | 20. 6 |       |
| 10. 3 | 21. 5 |       |
| 11. 3 | 22. 1 |       |

### Problem Set

Answers will vary.

### Exit Ticket

Answers will vary.

### Homework

- |                               |  |
|-------------------------------|--|
| 1. a. Answer provided         | 2. Answers will vary.                              |
| b. 2 matched to 5;<br>2, 5, 7 | 3. 7; 7, 0; 0, 7                                   |
| c. 3 matched to 4;<br>7, 4, 3 | 4. First, third, fifth, and sixth dominoes colored |
|                               | 5. 7, 7; 7, 1;<br>7, 3; 7, 2                       |

## Lesson 6

### Number Bond Dash

- |       |       |       |
|-------|-------|-------|
| 1. 1  | 12. 4 | 23. 4 |
| 2. 0  | 13. 5 | 24. 7 |
| 3. 1  | 14. 2 | 25. 1 |
| 4. 2  | 15. 5 |       |
| 5. 1  | 16. 1 |       |
| 6. 0  | 17. 6 |       |
| 7. 1  | 18. 7 |       |
| 8. 2  | 19. 5 |       |
| 9. 3  | 20. 2 |       |
| 10. 4 | 21. 6 |       |
| 11. 3 | 22. 2 |       |

### Problem Set

- |  |  |
|--|--|
| 1. Group of 6 circled;<br>2; 6, 2; 2, 6    | 4. a. Answer provided<br>b. 1<br>c. 2<br>d. 5<br>e. 4, 4 |
| 2. Group of 5 circled;<br>5, 3; 5, 3; 3, 5 | 5. 8, 3, 5; group of 3 and group of 5 objects drawn      |
| 3. Group of 4 circled; 8, 4, 4; 4, 4; 4, 4 | 6. 8, 8, 0; group of 8 objects drawn                     |

### Exit Ticket

- 3, 8; 5, 3, 8; 3, 5, 8
- 6, 2, 8; 8, 6, 2; 8, 2, 6

**Homework**

1.
  - a. Answer provided
  - b. 2 matched to 6;  
2, 6, 8
  - c. 1 matched to 7;  
8, 1, 7
2. 5; answers will vary.
3. 0; 0, 8; 8, 8, 8, 0
4.
  - a. Answer provided
  - b. 7
  - c. 2
  - d. 5
  - e. 4, 4
5. 8, 2, 6; group of 2 and group of 6 objects drawn
6. 8, 0, 8; group of 8 objects drawn

## Lesson 7

### Number Bond Dash

- |       |       |       |
|-------|-------|-------|
| 1. 0  | 12. 3 | 23. 6 |
| 2. 1  | 13. 5 | 24. 8 |
| 3. 2  | 14. 4 | 25. 7 |
| 4. 1  | 15. 5 |       |
| 5. 2  | 16. 2 |       |
| 6. 3  | 17. 6 |       |
| 7. 2  | 18. 2 |       |
| 8. 3  | 19. 3 |       |
| 9. 4  | 20. 5 |       |
| 10. 5 | 21. 4 |       |
| 11. 4 | 22. 7 |       |

### Problem Set

- |   |                                       |
|---|---------------------------------------|
| 1. Group of 7 circled;<br>2; 7, 2; 2, 7       | 5. a. 7                               |
| 2. Group of 4 circled;<br>9, 4, 5; 4, 5; 5, 4 | b. 9, 6, 3                            |
| 3. Group of 2 circled;<br>9, 2, 7; 2, 7; 7, 2 | c. 9, 1, 8                            |
| 4. a. Answer provided                         | d. 9, 9, 0                            |
| b. 3  | e. 9, 4, 5; $4 + 5 = 9$ ; $5 + 4 = 9$ |
| c. 8  |                                       |
| d. 0  |                                       |
| e. 5  |                                       |

**Exit Ticket**

1. Pairs circled: 6 and 3; 8 and 1; 7 and 2; 5 and 4
2.
  - a. 9, 5; 4, 5
  - b. Answers will vary.

**Homework**

1. Answers will vary.

## Lesson 8

### Number Bond Dash

- |          |       |       |
|----------|-------|-------|
| 1. 1     | 12. 8 | 23. 7 |
| 2. 2     | 13. 2 | 24. 9 |
| 3. 1     | 14. 7 | 25. 7 |
| 4. 2     | 15. 3 |       |
| 5. 0     | 16. 4 |       |
| 6. 3     | 17. 3 |       |
| 7. 2     | 18. 2 |       |
| 8. 3     | 19. 7 |       |
| 9. 4     | 20. 6 |       |
| 10. 4, 5 | 21. 4 |       |
| 11. 1    | 22. 8 |       |

### Problem Set

- Answers will vary.
- Answer provided
  - 9 matched to 1; 9, 1, 10
  - 8 matched to 2; 10, 2, 8
  - 7 matched to 3; 7, 3, 10
  - 6 matched to 4; 10, 6, 4
  - 5 matched to 5; 10, 5, 5
- Number bond showing 5 and 5 is 10 colored; 5, 5, 10; 10, 5, 5

### Exit Ticket

Partners colored: 7 and 3; 4 and 6; 8 and 2; 1 and 9

**Homework**

1.
  - a. 5
  - b. 4
  - c. 3
  - d. 2
  - e. 1
2. 3, 7, 10; 7, 3, 10; 10, 3, 7; 10, 7, 3



## Lesson 9

### Number Bond Dash

- |       |        |       |
|-------|--------|-------|
| 1. 0  | 12. 3  | 23. 8 |
| 2. 1  | 13. 4  | 24. 6 |
| 3. 2  | 14. 5  | 25. 8 |
| 4. 1  | 15. 6  |       |
| 5. 0  | 16. 4  |       |
| 6. 1  | 17. 6  |       |
| 7. 2  | 18. 7  |       |
| 8. 3  | 19. 6  |       |
| 9. 2  | 20. 7  |       |
| 10. 3 | 21. 10 |       |
| 11. 4 | 22. 9  |       |

### Problem Set

- |                              |                              |
|------------------------------|------------------------------|
| 1. 5, 2, 7; 5, 2, 7; 5, 2, 7 | 3. 4, 3, 7; 4, 3, 7; 4, 3, 7 |
| 2. 6, 1, 7; 6, 1, 7; 6, 1, 7 | 4. 5, 4, 9; 5, 4, 9; 5, 4, 9 |

### Exit Ticket

Group of 3 and group of 5 objects drawn; 3, 5, 8; 8

### Homework

- Answers will vary; 8
- Answers will vary; 7
- Group of 4 and group of 3 objects drawn; 4, 3, 7; 7
- Group of 3 and group of 6 objects drawn; 9, 3, 6; 9

## Lesson 10

### Fluency Activity

Answers will vary.

### Problem Set

- 4, 3, 7; 7, 4, 3
- 5, 5, 10; 10, 5, 5
- 5, 2, 7; 7, 5, 2
- Matched to 5 and 3
  - Matched to 4 and 3
  - Matched to 5 and 2
  - Matched to 2 and 2

### Exit Ticket

- Group of 3 and group of 4 objects drawn; 3, 4, 7; 7
- Second set of numeral tiles (3 and 4) circled

### Homework

- 3, 5, 8; 3 dots drawn
- 8, 4, 4; 4 dots drawn
- Group of 4 and group of 5 objects drawn; 9; 4, 5, 9; 5, 4, 9
- Group of 3 and group of 5 objects drawn; 8; 3, 5, 8; 3, 5, 8

## Lesson 11

### Problem Set

1. Group of 2 flowers drawn; 2; 5, 3, 2; 5, 2, 3
2. Group of 6 square cookies drawn; 6; 8, 2, 6
3. Line separating 2 trucks and 3 trucks drawn; 3; 3; 5, 2, 3
4. Line separating 7 fish and 2 fish drawn; 2; 7, 2, 9; 7, 2, 9

### Exit Ticket

Group of 3 objects drawn; 3; 5, 3, 8

### Homework

1.
  - a. 5; 5 dots drawn on second card
  - b. 3; 3 dots drawn on second card
  - c. 2; 2 dots drawn on second card
  - d. 0; no dots drawn on first card
2.
  - a. 5; matched to  $3 + ? = 8$
  - b. 3; matched to  $6 + ? = 9$

## Lesson 12

### Problem Set

1. 2
2. 4
3. 6
4. 6, 2, 4; 4
5. 3, 7, 10; 7

### Exit Ticket

1. Group of 5 and group of 2 objects drawn; 5, 2, 7; 2

### Homework

1. 2; 2 dots card shown
2. 6; 6 dots card shown
3. 3; 3 dots card shown
4. Numeral 4 and 3 dots cards shown; 4, 3, 7; 3
5. Numeral 1 and 6 dots cards shown; 1, 6, 7; 6
6. Numeral 6 and 3 dots cards shown; 6, 3, 9; 3

## Lesson 13

### Problem Set

1. 8; answers will vary; 8, 6, 2
2. 10; answers will vary; 10, 5, 5
3. 2; answers will vary; 7, 5, 2
4. 4; answers will vary; 10, 6, 4

### Exit Ticket

1. Answers will vary.
2. 5; answers will vary.

### Homework

1. Answers will vary; 5, 2, 7
2. Answers will vary; 9, 6, 3
3. Answers will vary; 7, 2, 9

## Lesson 14

### Problem Set

- 6, 1, 7; 7
- 7, 5, 2; 7
- 8, 5, 3; 8
- 7
  - 9
  - 9
  - 8
- 10
  - 5
  - 7
  - 9

### Exit Ticket

- 8; 8
- 10
  - 10

### Homework

- 6
  - 7; 5, 6, 7
  - 9; 7, 8, 9
  - 9; 6, 7, 8, 9
  - Answers will vary.

## Lesson 15

### Sprint

#### Side A

- |       |        |        |
|-------|--------|--------|
| 1. 2  | 11. 7  | 21. 8  |
| 2. 3  | 12. 10 | 22. 7  |
| 3. 4  | 13. 9  | 23. 7  |
| 4. 5  | 14. 8  | 24. 8  |
| 5. 3  | 15. 10 | 25. 9  |
| 6. 4  | 16. 7  | 26. 10 |
| 7. 5  | 17. 8  | 27. 10 |
| 8. 3  | 18. 10 | 28. 8  |
| 9. 4  | 19. 9  | 29. 9  |
| 10. 5 | 20. 10 | 30. 9  |

#### Side B

- |       |        |        |
|-------|--------|--------|
| 1. 2  | 11. 3  | 21. 9  |
| 2. 4  | 12. 3  | 22. 8  |
| 3. 5  | 13. 4  | 23. 8  |
| 4. 4  | 14. 6  | 24. 7  |
| 5. 3  | 15. 8  | 25. 9  |
| 6. 4  | 16. 6  | 26. 8  |
| 7. 5  | 17. 5  | 27. 8  |
| 8. 5  | 18. 7  | 28. 9  |
| 9. 4  | 19. 9  | 29. 10 |
| 10. 6 | 20. 10 | 30. 11 |

**Problem Set**

1.
  - a. 5, 1, 6; 6
  - b. 5, 2, 7; 7
  - c. 7, 4, 3; 7
2.
  - a. 5
  - b. 7
  - c. 8
  - d. 8
  - e. 8
  - f. 9
  - g. 10
  - h. 7
  - i. 9
  - j. 10
  - k. 6
  - l. 7
  - m. 8
  - n. 10

**Exit Ticket**

1. Answers may vary; 6, 3, 9; 9

**Homework**

1. 8
2. 8; answers will vary.
3. 10
4. 10
5. 9
6. 9; answers will vary.



## Lesson 16

### Problem Set

- 2 objects drawn; 2; 2
- 2
- 2
- 2
- 1; answers will vary.
  - 3; answers will vary.
  - 3; answers will vary.
  - 2; answers will vary.
  - 1; answers will vary.
  - 2; answers will vary.
  - 2; answers will vary.
  - 3; answers will vary.

### Exit Ticket

- 2; answers will vary.
  - 3; answers will vary.

### Homework

- Group of 2 objects drawn; 2
- Group of 2 objects drawn; 2
- 8, 9, 10; 3

## Lesson 17

### Problem Set

- 3, 4, equal sign, 2, 5
- 4, 4, equal sign, 6, 2
- 5, 4, equal sign, 6, 3
- 5, 3, equal sign, 6, 2
- $4 + 3$
  - $0 + 9$
  - $5 + 5$
  - $4 + 4$
  - $6 + 4$
  - $3 + 3$
  - $5 + 5 = 6 + 4$
- $10 + 0$
  - $5 + 2$
  - $4 + 6$
  - $6 + 2$
  - $1 + 9$
  - $1 + 0$
  - $4 + 6 = 1 + 9$

### Exit Ticket

- 5 objects separated into 2 groups drawn in the empty basket; answers will vary.
- Second and third domino shaded;  $4 + 4 = 2 + 6$

### Homework

- Matched to 0 and 9;  $6 + 3 = 0 + 9$
  - Matched to 5 and 3;  $4 + 4 = 5 + 3$
  - Matched to 5 and 5;  $6 + 4 = 5 + 5$
- $5 + 2 = 4 + 3$
  - $8 + 2 = 7 + 3$

## Lesson 18

### Problem Set

- $5 + 1$  and  $3 + 3$  colored;  $5 + 1 = 3 + 3$
  - $5 + 3$  and  $4 + 4$  colored;  $5 + 3 = 4 + 4$
- ✓
  - X; answers will vary.
  - ✓
  - ✓
  - X; answers will vary.
  - ✓
  - ✓
  - X; answers will vary.
- Answers will vary.
  - Answers will vary.
  - Answers will vary.
  - Answers will vary.

### Exit Ticket

- Answer provided; answers will vary.
  - Answers will vary.

### Homework

- Group of 3 objects drawn in the second box;  
 $5 + 4 = 6 + 3$
- Circled
  - Answers will vary.
  - Circled
  - Circled
  - Answers will vary.
  - Circled
  - Answers will vary.
  - Circled
  - Circled
- 4
  - 0
  - 3
  - 1
  - 1
  - 6

## Lesson 19

### Sprint

#### Side A

- |       |       |        |
|-------|-------|--------|
| 1. 2  | 11. 7 | 21. 6  |
| 2. 3  | 12. 8 | 22. 7  |
| 3. 4  | 13. 7 | 23. 7  |
| 4. 5  | 14. 8 | 24. 8  |
| 5. 4  | 15. 9 | 25. 9  |
| 6. 5  | 16. 7 | 26. 9  |
| 7. 4  | 17. 6 | 27. 9  |
| 8. 3  | 18. 7 | 28. 10 |
| 9. 4  | 19. 7 | 29. 10 |
| 10. 5 | 20. 6 | 30. 9  |

#### Side B

- |       |       |        |
|-------|-------|--------|
| 1. 3  | 11. 8 | 21. 4  |
| 2. 2  | 12. 7 | 22. 7  |
| 3. 3  | 13. 8 | 23. 7  |
| 4. 4  | 14. 9 | 24. 8  |
| 5. 5  | 15. 8 | 25. 8  |
| 6. 4  | 16. 7 | 26. 9  |
| 7. 5  | 17. 6 | 27. 10 |
| 8. 4  | 18. 5 | 28. 9  |
| 9. 6  | 19. 4 | 29. 8  |
| 10. 7 | 20. 3 | 30. 9  |

**Problem Set**

1. a. 5, 3, 2  
Answers will vary.
- b. 8, 5, 3  
Answers will vary.
- c. 10, 2, 8  
Answers will vary.
2. 3, 2, =, 2, 3
3. 3, 4, =, 4, 3
4. Group of 1 and group of 6 objects drawn on second plate; 6, 1, =
5. Answers will vary.

**Exit Ticket**

1. Sequence of number sentences may vary:  $5 + 4 = 9$ ;  $9 = 5 + 4$ ;  $4 + 5 = 9$ ;  $9 = 4 + 5$

**Homework**

1. 7, 5, 2; 5, 2, 7; 2, 5, 7
2. a. 5, 3, 8; 3, 5, 8
- b. 8; 8, 6, 2; 8, 2, 6
- c. 10; 8, 2, 10; 2, 8, 10
- d. 2; 2, 5, 7; 5, 2, 7
- e. 7; 10, 7, 3; 10, 3, 7
- f. 6; 6, 3, 9; 3, 6, 9

## Lesson 20

### Problem Set

1. Group of 7 skateboards circled; 7, 2, 9
2. 5 colored; 5, 2, 7
3. 4 colored; 4, 3, 7
4. 6 colored; 6, 4, 10
5. 7 shaded; 7, 9; 7, 2, 9
6. 6 shaded; 6, 9; 6, 3, 9
7. 5 circled; 6
8. 6 circled; 8
9. 4 circled; 7
10. 6 circled; 9

### Exit Ticket

1. a. 5 circled; 8; 5, 3, 8  
b. 7 circled; 9; 7, 2, 9

### Homework

1. Group of 3 pencils colored; 5, 3; 2, 3, 5
2. Bag of 7 food items colored; 9, 2; 7, 2, 9
3. 6 colored; 7; 6, 1, 7
4. 4 colored; 6; 4, 2, 6
5. 5 colored; 8; 5, 3, 8
6. 4 colored; 8; 4, 4, 8
7. 5 colored; 9; 5, 4, 9

## Lesson 21

### Problem Set

- $3 + 3 = 6$ ; colored red
- $4 + 4 = 8$ ; colored red
- $3 + 4 = 7$ ; colored blue
- $5 + 4 = 9$ ; colored blue
- 9; 2 groups of 4 circled;  $4 + 4 = 8$
- 7; 2 groups of 3 circled;  $3 + 3 = 6$
- 0; 1
  - 4; 5
  - 6; 7
  - 8; 9
  - 3; 4
  - 5; 5
- 11;  $5 + 5 = 10$
- Acceptable answers:  $4 + 4 = 8$ ;  $8 = 4 + 4$  ;  
 $4 + 5 = 9$ ;  $5 + 4 = 9$ ;  $9 = 4 + 5$ ;  $9 = 5 + 4$

### Exit Ticket

- $3 + 3 = 6$ ;  $3 + 4 = 7$
  - $4 + 4 = 8$ ;  $4 + 5 = 9$
  - $5 + 5 = 10$ ;  $5 + 6 = 11$

**Homework**

1.
  - a. 4;  $4 + 4 = 8$
  - b. 3;  $3 + 3 = 6$
  - c. 5;  $5 + 5 = 10$
2.
  - a.  $1 + 1 = 2$
  - b. 2;  $2 + 2 = 4$
  - c. 3, 3;  $3 + 3 = 6$
  - d. 4;  $4 + 4 = 8$
  - e. 5, 5;  $5 + 5 = 10$
3.
  - a. 6
  - b. 5
  - c. 1
  - d. 2
  - e. 4
4.
  - a. 1 matched to 2
  - b. 4 matched to 5
  - c. 3 matched to 4
  - d. 2 matched to 3
5.
  - a. 5;  $2 + 2 = 4$
  - b. 4;  $3 + 3 = 6$
  - c. 5;  $4 + 4 = 8$



## Lesson 22

### Problem Set

1. First column: red; 1, 2, 3, 4, 5, 6, 7, 8, 9
2. Second column: orange; 2, 3, 4, 5, 6, 7, 8, 9, 10  
First row: orange; 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
3. Third column: yellow; 3, 4, 5, 6, 7, 8, 9, 10  
Second row: yellow; 2, 3, 4, 5, 6, 7, 8, 9, 10
4. Fourth column: green; 4, 5, 6, 7, 8, 9, 10  
Third row: green; 3, 4, 5, 6, 7, 8, 9, 10
5. Remaining columns and rows: blue; 8, 9, 10; 9, 10; 10

### Exit Ticket

1. First column: 0
2. Second column: 1
3. Fourth column: 3
4. Fifth column: 4
5. Sixth column: 4
6. Seventh column: 4

### Homework

1.
  - a. 8; blue
  - b. 1; blue
  - c. 4; blue
  - d. 8; yellow
  - e. 2; green
  - f. 3; yellow
  - g. 9; yellow
  - h. 2; green
  - i. 3; blue
  - j. 1; blue
  - k. 3; blue
  - l. 8; green
  - m. 3; yellow
  - n. 1; blue
  - o. 5; green
  - p. 6; blue
  - q. 4; green
  - r. 2; green
  - s. 5; blue
  - t. 9; green
  - u. 1; blue
  - v. 10; blue
  - w. 10; yellow
  - x. 2; blue

## Lesson 23

### Problem Set

Totals of 10

$0 + 10 = 10$

$1 + 9 = 10$

$2 + 8 = 10$

$3 + 7 = 10$

$4 + 6 = 10$

$5 + 5 = 10$

Answers will vary; order may be reversed

Totals of 9

$0 + 9 = 9$

$1 + 8 = 9$

$2 + 7 = 9$

$3 + 6 = 9$

$4 + 5 = 9$

Answers will vary; order may be reversed

Totals of 8

$0 + 8 = 8$

$1 + 7 = 8$

$2 + 6 = 8$

$3 + 5 = 8$

$4 + 4 = 8$

Answers will vary; order may be reversed

Totals of 7

$0 + 7 = 7$

$1 + 6 = 7$

$2 + 5 = 7$

$3 + 4 = 7$

Answers will vary; order may be reversed

### Exit Ticket

1. Boxes circled:

$9 + 1; 8 + 2; 7 + 3; 6 + 4; 5 + 5; 4 + 6; 3 + 7; 2 + 8; 1 + 9$

2. Boxes "x"ed:

$8 + 0; 7 + 1; 6 + 2; 5 + 3; 4 + 4; 3 + 5; 2 + 6; 1 + 7$

### Homework

- 3; 4; 5; 4; 2 + 3, 5; 6
- 7; 8; 8 + 1, 9; 10; 8; 7 + 2, 9; 10
- 8; 9; 10 9; 5 + 5, 10; 4 + 6, 10
- 6; 3 + 4, 7; 2 + 5, 7; 8, 8; 3 + 6, 9

## Lesson 24

### Problem Set

- Answers will vary.
- Answers will vary.
- Answers will vary.
- Answers will vary.
- Answers will vary.
- Answers will vary.

### Exit Ticket

- 7 ; green
  - 9; green
  - 5; brown or green
  - 6; red
  - 6; blue
  - 1; red or blue
  - 8; red
  - 10; green
  - 7; brown
  - 9; brown
  - 9; blue
  - 5; red

Challenge:  $2 + 3 = 5$ ;  $1 + 1 = 2$

**Homework**

1. 6; placed in +1 column
  2. 6; placed in doubles column
  3. 8; placed in doubles column
  4. 9; placed in doubles +1 column and mentally Visualized 5-group column
  5. 8; placed in +2 column
  6. 8; placed in +1 column
  7. 10; placed in +2 column
  8. 9; placed in 1+ column
  9. 5; placed in doubles +1 column and +2 column
  10. 4; placed in doubles column and +2 column
  11. 7; placed in doubles +1 column
  12. 7; placed in mentally visualized 5-groups Column and +2 column
- Answers will vary

1	2	3	4	5	6	7	8	9	10
2	3	4	5	6	7	8	9	10	
3	4	5	6	7	8	9	10		
4	5	6	7	8	9	10			
5	6	7	8	9	10				
6	7	8	9	10					
7	8	9	10						
8	9	10							
9	10								
10									

## Lesson 25

### Problem Set

- 5, 2, 3; 3; 3; 3
- 9, 7, 2; 7, 2; 7, 2; 2
- 6, 2, 4; 2, 4; 2, 4; 4
- 7, 3, 4; 3, 4; 3, 4; 4

### Exit Ticket

- 6, 3, 9; 6, 3, 9; 9, 6, 3; numeral 3 colored; 3

### Homework

- Line separating 6 and 2 drawn; 8, 6, 2; 6, 2, 8; 8, 6, 2; 2
- Line separating 4 and 5 drawn; 9, 4, 5; 4, 5, 9; 9, 4, 5; 5
- Groups of 2 objects and 4 objects drawn; 6, 2, 4; 2, 4, 6; 6, 2, 4; 4
- Groups of 3 objects and 6 objects drawn; 9, 3, 6; 3, 6, 9; 9, 3, 6; 6
- Groups of 2 objects and 8 objects drawn; 10, 2, 8; 2, 8, 10; 10, 2, 8; 8

## Lesson 26

### Problem Set

- 2; 2
- 3; 3
- 3; 3
- 6; 6
- 1; 1
- 4; 4
- 2; 2
- 4; 4
- 6; 6

### Exit Ticket

- $2; 5 + 2 = 7$
  - $7; 2 + 7 = 9$
  - $7; 3 + 7 = 10$

### Homework

- 2; 2
- 2; 2
  - 3; 3
  - $6; 2 + 6 = 8$
  - $3; 6 + 3 = 9$
- $2; 6 = 4 + 2$
  - $4; 4 + 5 = 9$
  - $4; 6 + 4 = 10$
  - $3; 10 + 7 + 3$
- $5; 8 - 3 = 5; 3 + 5 = 8$   
Number sentences may vary.
  - $6; 9 - 6 = 3; 3 + 6 = 9$   
Number sentences may vary.

## Lesson 27

### Problem Set

- 1; 3, 1, 4; rectangle drawn around 1
- 4; 2, 4, 6; rectangle drawn around 4
- 4; 3, 4, 7; rectangle drawn around 4
- 3;  $6 + 3 = 9$ ; rectangle drawn around 3
- 8;  $2 + 8 = 10$ ; rectangle drawn around 8
- 4; 4
- 4; 4
- 9
- 7
- a. 1; count on  
b. 8; count back  
c. 3; count on  
d. 2; count on  
e. 3; count on  
f. 3; answer will vary.

### Exit Ticket

- 1; count on; drawings will vary.

### Homework

- a.  $7; 7 + 3 = 10; 10 - 7 = 3$   
(Number sentences may vary.)  
b.  $4; 4 + 6 = 10; 10 - 6 = 4$   
(Number sentences may vary.)
- a. 2; count on  
b. 6; count back  
c. 2; count on
- a. 2; count on; curved lines from 5 to 6 and 6 to 7 drawn; on  
b. 8; count back; curved line from 9 to 8 drawn; back  
c. 2; count on; answers will vary.

## Lesson 28

### Sprint

#### Side A

- |       |        |        |
|-------|--------|--------|
| 1. 4  | 11. 6  | 21. 0  |
| 2. 3  | 12. 8  | 22. 10 |
| 3. 2  | 13. 7  | 23. 20 |
| 4. 4  | 14. 8  | 24. 3  |
| 5. 2  | 15. 9  | 25. 13 |
| 6. 0  | 16. 9  | 26. 23 |
| 7. 3  | 17. 7  | 27. 9  |
| 8. 4  | 18. 10 | 28. 19 |
| 9. 6  | 19. 9  | 29. 20 |
| 10. 5 | 20. 8  | 30. 30 |

#### Side B

- |       |        |        |
|-------|--------|--------|
| 1. 2  | 11. 9  | 21. 10 |
| 2. 1  | 12. 8  | 22. 10 |
| 3. 0  | 13. 7  | 23. 20 |
| 4. 5  | 14. 5  | 24. 4  |
| 5. 3  | 15. 16 | 25. 14 |
| 6. 1  | 16. 9  | 26. 24 |
| 7. 0  | 17. 8  | 27. 19 |
| 8. 2  | 18. 10 | 28. 9  |
| 9. 4  | 19. 8  | 29. 20 |
| 10. 6 | 20. 12 | 30. 10 |



**Problem Set**

1. 4; 4; 4
2. Group of 3 eggs crossed out; 3, 3; 3; 3, 3
3. 8 objects drawn; group of 3 objects crossed out; 8, 3, 5; 5; 8, 3, 5
4. 7 objects drawn; group of 2 objects crossed out; 7, 2, 5; 5; 7, 2, 5

**Exit Ticket**

1. 9 objects drawn; group of 3 objects crossed out; 9, 3, 6; 9, 3, 6; 6

**Homework**

1. 6 objects drawn; group of 2 objects crossed out; 2, 4; 2, 4; 4
2. 8 objects drawn; group of 3 objects crossed out; 8, 3, 5; 8, 3, 5; 5
3. 7 objects drawn; group of 3 objects crossed out; 7, 3, 4; 7, 3, 4; 4
4. 9 objects drawn; group of 6 objects crossed out; 9, 6, 3; 9, 6, 3; 3
5. 10 objects drawn; group of 7 objects crossed out; 10, 7, 3; 3, 10, 7; 3
6. 10 objects drawn; group of 4 objects crossed out; 10, 4, 6; 6, 10, 4; 6

## Lesson 29

### Problem Set

- 6; 3; 3, 3; labels will vary; 3, 3; 3
- 9; 5; 9, 5, 4; labels will vary; 5, 4; 4
- 8 objects drawn; group of 2 objects circled; 8, 2, 6; labels will vary; 8, 2, 6; 6
- Answers will vary.

### Exit Ticket

- 9 objects drawn; group of 7 objects circled; 9, 7, 2; labels will vary; 9, 7, 2; 2

### Homework

- 7 objects drawn; group of 5 objects circled; 7, 5, 2; labels will vary; 7, 5, 2; 2
- 8 objects drawn; group of 2 objects circled; 8, 2, 6; labels will vary; 8, 2, 6; 6
- 9 objects drawn; group of 4 objects circled; 9, 4, 5; labels will vary; 9, 4, 5; 5
- 10 objects drawn; group of 6 objects circled; 10, 6, 4; labels will vary; 10, 6, 4; 4
- 7 objects drawn; group of 2 objects circled; 2, 5, 7; labels will vary; 7, 2, 5; 5
- 10 objects drawn; group of 2 objects circled; 2, 8, 10; labels will vary; 10, 2, 8; 8

## Lesson 30

### Problem Set

- 2 objects drawn; 5, 3, 2; labels will vary; 2; 2; numeral 2 in both number sentences shaded
- 5, 3, and 8 objects drawn; 5, 3, 8; labels will vary; 3; 3; numeral 3 in both number sentences shaded
- 2, 4, and 6 objects drawn; 6, 2, 4; labels will vary; 2, 4; 2, 4; numeral 4 in both number sentences circled; 4
- 5, 4, and 9 objects drawn; 5, 4, 9; labels will vary; 5, 4; 5, 4; numeral 4 in both number sentences circled; 4

### Exit Ticket

6, 3, and 9 objects drawn; 9, 6, 3; labels will vary; 6, 3, 9; 9, 6, 3; 3

### Homework

- 7, 2, and 5 objects drawn; 7, 2, 5; labels will vary; 2, 5; 2, 5; numeral 5 in both number sentences circled; 5
- 8, 3, and 5 objects drawn; 8, 3, 5; labels will vary; 3, 5; 3, 5; numeral 5 in both number sentences circled; 5
- 9, 5, and 4 objects drawn; 9, 5, 5; labels will vary; 5, 4; 9, 5, 4; numeral 4 in both number sentences circled; 4
- 10, 7, and 3 objects drawn; 10, 7, 3; labels will vary; 7, 3, 10; 10, 7, 3; numeral 3 in both number sentences circled; 3

## Lesson 31

### Problem Set

1. Group of 5 objects circled; group of 2 objects crossed out; 7, 5, 2; 5, 2; 2
2. 8 objects drawn; group of 4 objects circled, group of 4 objects crossed out; 8, 4, 4; 8, 4, 4; 4
3. 6 objects drawn; group of 2 objects circled, group of 4 objects crossed out; 6, 2, 4; 6, 2, 4; 4
4. 9 objects drawn; group of 5 objects circled, group of 4 objects crossed out; 9, 5, 4; 9, 5, 4; 4

### Exit Ticket

9 objects drawn; group of 3 objects circled, group of 6 objects crossed out;  
9, 3, 6; 9, 3, 6; 6

### Homework

1. 6 objects drawn; group of 4 objects circled, group of 2 objects crossed out; 4, 2; 4, 2; 2
2. 8 objects drawn; group of 6 objects circled, group of 2 objects crossed out; 8, 6, 2; 8, 6, 2; 2
3. 7 objects drawn; group of 5 objects circled, group of 2 objects crossed out; 7, 5, 2; 7, 5, 2; 2
4. 8 objects drawn; group of 5 objects circled, group of 3 objects crossed out; 8, 5, 3; 8, 5, 3; 3
5. 10 objects drawn; group of 7 objects circled, group of 3 objects crossed out; 10, 7, 3; 10, 7, 3; 3
6. 10 objects drawn; group of 3 objects circled, group of 7 objects crossed out; 10, 3, 7; 10, 3, 7; 7

## Lesson 32

### Problem Set

- 5 objects drawn; group of 4 objects circled; 4, 1; labels will vary; 4, 1; 4, 1; 1
- 8 objects drawn; group of 5 objects circled; 5, 3; labels will vary; 5, 3; 5, 3; 3
- 2; math stories will vary; 8 objects drawn; group of 6 objects circled; 6, 2; 6, 2
- 6; math stories will vary; 9 objects drawn; group of 3 objects circled; 3, 6, 9; 9, 3, 6

### Exit Ticket

9 objects drawn; group of 5 objects circled; 4; 9, 5, 4; 9, 5, 4; 5, 4, 9

### Homework

- 10 objects drawn; group of 6 objects circled; matched to  $6 + 4 = 10$ ;  $10 - 6 = 4$
  - 9 objects drawn; group of 6 objects circled; matched to  $6 + 3 = 9$ ;  $9 - 6 = 3$
  - 10 objects drawn; group of 3 objects circled; matched to  $3 + 7 = 10$ ;  $10 - 3 = 7$
- 3; group of 3 objects and group of 4 objects drawn;  $3 + 4 = 7$ ;  
group of 7 objects drawn with a group of 4 circled or crossed out;  $7 - 4 = 3$ ; drawings and number sentences may vary.
- 3; group of 3 objects and group of 5 objects drawn;  $3 + 5 = 8$ ;  
group of 8 objects drawn with a group of 5 circled or crossed out;  $8 - 5 = 3$ ; drawings and number sentences may vary.

## Lesson 33

### Sprint

#### Side A

- |        |        |       |        |
|--------|--------|-------|--------|
| 1. 4   | 12. 4  | 23. 3 | 34. 9  |
| 2. 5   | 13. 5  | 24. 9 | 35. 10 |
| 3. 6   | 14. 6  | 25. 9 | 36. 10 |
| 4. 10  | 15. 10 | 26. 5 | 37. 7  |
| 5. 7   | 16. 7  | 27. 5 | 38. 8  |
| 6. 9   | 17. 8  | 28. 6 | 39. 8  |
| 7. 3   | 18. 9  | 29. 4 | 40. 9  |
| 8. 8   | 19. 9  | 30. 6 | 41. 10 |
| 9. 8   | 20. 10 | 31. 6 | 42. 10 |
| 10. 10 | 21. 7  | 32. 7 | 43. 9  |
| 11. 7  | 22. 8  | 33. 8 | 44. 10 |

#### Side B

- |        |        |        |        |
|--------|--------|--------|--------|
| 1. 3   | 12. 4  | 23. 9  | 34. 10 |
| 2. 4   | 13. 5  | 24. 10 | 35. 9  |
| 3. 5   | 14. 6  | 25. 6  | 36. 9  |
| 4. 9   | 15. 9  | 26. 6  | 37. 8  |
| 5. 6   | 16. 7  | 27. 5  | 38. 7  |
| 6. 8   | 17. 10 | 28. 5  | 39. 8  |
| 7. 10  | 18. 8  | 29. 4  | 40. 9  |
| 8. 7   | 19. 8  | 30. 3  | 41. 10 |
| 9. 7   | 20. 10 | 31. 6  | 42. 10 |
| 10. 10 | 21. 7  | 32. 7  | 43. 9  |
| 11. 8  | 22. 9  | 33. 8  | 44. 10 |

**Problem Set**

- |   |          |
|---|----------|
| 1. 1 circle crossed off; 5                                  | 14. 6    |
| 2. No circles crossed off; 6                                | 15. 8    |
| 3. 6; 5-group drawing: 7 circles with 1 circle crossed off  | 16. 8    |
| 4. 7; 5-group drawing: 7 circles                            | 17. a. 6 |
| 5. 9; 5-group drawing: 10 circles with 1 circle crossed off | b. 5     |
| 6. 10; 5-group drawing: 10 circles                          | c. 0     |
| 7. 7; 5-group drawing: 8 circles with 1 circle crossed off  | d. 6     |
| 8. 8; 5-group drawing: 8 circles                            | e. 8     |
| 9. 8; 5-group drawing: 9 circles with 1 circle crossed off  | f. 1     |
| 10. 9; 5-group drawing: 9 circles                           | g. 0     |
| 11. 1 circle crossed off; 5                                 | h. 8     |
| 12. 1 circle crossed off; 7                                 | i. 0     |
| 13. 9   | j. 1     |

**Exit Ticket**

- 8; 5-group drawing: 9 circles with 1 circle crossed off
- 8; 5-group drawing: 8 circles
- 9; 5-group drawing: 9 circles with 1 circle crossed off
- 0; 5-group drawing: 10 circles

**Homework**

- |  |             |
|--|-------------|
| 1. 8; 5-group drawing: 9 circles with 1 circle crossed off           | 11. 9, 1, 8 |
| 2. 9; 5-group drawing: 9 circles                                     | 12. 9, 0, 9 |
| 3. 0; 5-group drawing: 6 circles                                     | 13. 8, 1, 7 |
| 4. 1; 5-group drawing: 7 circles with 1 circle crossed off           | 14. a. 1    |
| 5. 0; vertical 5-group drawing: 9 circles                            | b. 7        |
| 6. 0; vertical 5-group drawing: 8 circles                            | c. 1        |
| 7. 1; vertical 5-group drawing: 10 circles with 1 circle crossed off | d. 1        |
| 8. 0; vertical 5-group drawing: 7 circles                            | e. 1        |
| 9. 6, 1, 5   | f. 1        |
| 10. 7, 0, 7  | g. 0        |
|  | h. 1        |



## Lesson 34

### Sprint

#### Side A

- |       |        |        |
|-------|--------|--------|
| 1. 1  | 11. 8  | 21. 6  |
| 2. 0  | 12. 10 | 22. 8  |
| 3. 1  | 13. 9  | 23. 0  |
| 4. 2  | 14. 8  | 24. 8  |
| 5. 3  | 15. 9  | 25. 1  |
| 6. 4  | 16. 10 | 26. 0  |
| 7. 3  | 17. 9  | 27. 0  |
| 8. 4  | 18. 8  | 28. 8  |
| 9. 5  | 19. 6  | 29. 8  |
| 10. 6 | 20. 5  | 30. 10 |

#### Side B

- |       |        |        |
|-------|--------|--------|
| 1. 2  | 11. 10 | 21. 10 |
| 2. 1  | 12. 7  | 22. 8  |
| 3. 0  | 13. 8  | 23. 1  |
| 4. 1  | 14. 9  | 24. 9  |
| 5. 2  | 15. 8  | 25. 1  |
| 6. 4  | 16. 9  | 26. 1  |
| 7. 4  | 17. 8  | 27. 0  |
| 8. 6  | 18. 6  | 28. 9  |
| 9. 7  | 19. 7  | 29. 10 |
| 10. 9 | 20. 8  | 30. 9  |

**Problem Set**

1. 6 circles crossed off; 0
2. 5 circles crossed off; 1
3. 5-group drawing of 7; 7 circles crossed off; 0
4. 5-group drawing of 7; 6 circles crossed off; 1
5. 5-group drawing of 10; 10 circles crossed off; 0
6. 5-group drawing of 10; 9 circles crossed off; 1
7. 5-group drawing of 8; 8 circles crossed off; 0
8. 5-group drawing of 8; 7 circles crossed off; 1
9. 5-group drawing of 9; 9 circles crossed off; 0
10. 5-group drawing of 9; 8 circles crossed off; 1
11. 6 circles crossed off; 0
12. 8 circles crossed off; 0
13. 8 circles crossed off; 1
14. Vertical 5-group drawing of 7; 7 circles crossed off; 0
15. Vertical 5-group drawing of 8; 7 circles crossed off; 1
16. Vertical 5-group drawing of 9; 9 circles crossed off; 0
17. a. 0  
b. 1  
c. 7  
d. 1  
e. 0  
f. 7  
g. 9  
h. 1  
i. 0  
j. 9

**Exit Ticket**

1. 5-group drawing of 9; 8 circles crossed off; 8
2. 5-group drawing of 10; 10 circles crossed off; 10
3. 5-group drawing of 8; 7 circles crossed off; 8
4. 5-group drawing of 9; 9 circles crossed off; 9

**Homework**

1. 10 circles crossed off; 0
2. 8 circles crossed off; 1
3. 5-group drawing of 8; 7 circles crossed off; 8
4. 5-group drawing of 8; 8 circles crossed off; 8
5. 5-group drawing of 7; 7 circles crossed off; 7
6. 5-group drawing of 6; 5 circles crossed off; 5
7. Vertical 5-group drawing of 9; 8 circles crossed off; 8
8. Vertical 5-group drawing of 8; 8 circles crossed off; 8
9. 7, 7, 0
10. 10, 9, 1
11. 9, 9, 0
12. 9, 8, 1
13. 8, 8, 0
14. a. 7  
b. 6  
c. 7  
d. 6  
e. 9  
f. 9  
g. 10  
h. 8

## Lesson 35

### Sprint

#### Side A

- |       |        |        |
|-------|--------|--------|
| 1. 0  | 11. 1  | 21. 6  |
| 2. 0  | 12. 0  | 22. 9  |
| 3. 1  | 13. 1  | 23. 9  |
| 4. 0  | 14. 0  | 24. 10 |
| 5. 1  | 15. 1  | 25. 7  |
| 6. 0  | 16. 10 | 26. 7  |
| 7. 1  | 17. 9  | 27. 9  |
| 8. 0  | 18. 8  | 28. 8  |
| 9. 0  | 19. 6  | 29. 8  |
| 10. 0 | 20. 5  | 30. 6  |

#### Side B

- |       |        |       |
|-------|--------|-------|
| 1. 0  | 11. 0  | 21. 8 |
| 2. 0  | 12. 1  | 22. 6 |
| 3. 0  | 13. 1  | 23. 6 |
| 4. 1  | 14. 1  | 24. 7 |
| 5. 1  | 15. 0  | 25. 6 |
| 6. 1  | 16. 6  | 26. 6 |
| 7. 1  | 17. 7  | 27. 8 |
| 8. 0  | 18. 8  | 28. 8 |
| 9. 0  | 19. 10 | 29. 7 |
| 10. 0 | 20. 9  | 30. 7 |

**Problem Set**

1. 5 black circles crossed off; 1  
1 white circle crossed off; 5
2. 3 white circles crossed off; 5  
5 black circles crossed off; 3
3. 4 white circles crossed off; 5  
5 black circles crossed off; 4
4. 5-group drawing of 7; group of 5 circles  
crossed off; 2  
5-group drawing of 7; group of 2 circles  
crossed off; 5  
7, 2, 5
5. 5-group drawing of 10; group of 5  
circles crossed off; 5  
10, 5, 5
6.
  - a. 2
  - b. 2
  - c. 5
  - d. 5
  - e. 4
  - f. 5
7. 2; 2
8. 3; 3
9. 5; 5
10. 4; 4
11. 4; 4
12. 3; 3
13.
  - a. 2; 5-groups
  - b. 5; 5-groups
  - c. 4; doubles
  - d. 5; 5-groups
  - e. 3; 5-groups
  - f. 5; doubles

**Exit Ticket**

1. 10, 5, 5; 10; doubles or 5-group
2. 8, 4, 4; 4; doubles
3. 9, 5, 4; 5; 5-group or doubles plus one

**Homework**

1. 5 black circles crossed off; 2  
2 white circles crossed off; 5
2. 5 black circles crossed off; 1  
1 white circle crossed off; 5
3. 5 black circles crossed off; 5  
4 white circles crossed off; 4
4. 5-group drawing of 10; group of 5 circles  
crossed off; 5  
10, 5, 5
5. 5-group drawing of 8; group of 5 circles  
crossed off; 3  
5-group drawing of 10; group of 3  
circles crossed off; 3  
8, 5, 3
6.
  - a. 5
  - b. 10
  - c. 3
  - d. 7
  - e. 8
  - f. 9
7. 3; 3
8. 10; 10
9. 4; 4
10.
  - a. 5; 5-group
  - b. 5; 5-group
  - c. 5; doubles or 5-group
  - d. 6; doubles
  - e. 4; doubles
  - f. 4; 5-group

## Lesson 36

### Problem Set

- 9 circles crossed off; 1  
1 circle crossed off; 9
- 6 circles crossed off; 4  
4 circles crossed off; 6
- 3 circles crossed off; 7  
7 circle crossed off; 3
- 5-group drawing of 10; 4 circles crossed off; 6  
5-group drawing of 10; 6 circles crossed off; 4
- 5-group drawing of 10; 5 circles crossed off; 5
- 5-group drawing of 10; 8 circles crossed off; 2  
5-group drawing of 10; 2 circles crossed off; 8
- 2;  $10 - 2 = 8$ ; 10, 8, 2
- 1;  $10 - 1 = 9$ ; 10, 1, 9
- 7;  $10 - 7 = 3$ ; 10, 3, 7
- 4;  $10 - 4 = 6$ ; 10, 6, 4
- 1;  $10 - 9 = 1$ ;  $10 - 1 = 9$
  - 8;  $10 - 2 = 8$ ;  $10 - 8 = 2$
  - 7;  $10 - 3 = 7$ ;  $10 - 7 = 3$
  - 4;  $10 - 6 = 4$ ;  $10 - 4 = 6$
  - 5;  $10 - 5 = 5$

### Exit Ticket

- 3;  $10 - 7 = 3$ ;  $10 - 3 = 7$
- 8;  $10 - 2 = 8$ ;  $10 - 8 = 2$
- 6;  $10 - 4 = 6$ ;  $10 - 6 = 4$

**Homework**

1. 5-group drawing of 10; 2 circles crossed off; 8  
5-group drawing of 10; 8 circles crossed  
off; 10, 8, 2
2. 5-group drawing of 10; 1 circle crossed off; 9  
5-group drawing of 10; 9 circles crossed  
off; 10, 9, 1
3. 5-group drawing of 10; 7 circles crossed off; 3  
5-group drawing of 10; 3 circles crossed  
off; 10, 3, 7
4. 8;  $10 - 8 = 2$ ; 10, 2, 8
5. 1;  $10 - 9 = 1$ ; 10, 1, 9
6. 4;  $10 - 6 = 4$ ; 10, 4, 6
7. 9,  $10 - 1 = 9$ ; 10, 9, 1
8. 5; 10, 5, 5
9. a. 2; matched to  $10 - 2 = 8$ ;  $10 - 8 = 2$   
b. 3; matched to  $10 - 3 = 7$ ;  $10 - 7 = 3$   
c. 4; matched to  $10 - 4 = 6$ ;  $10 - 6 = 4$   
d. 5; matched to  $10 - 5 = 5$ ;  $10 - 5 = 5$   
e. 1; matched to  $10 - 1 = 9$ ;  $10 - 9 = 1$



## Lesson 37

### Sprint

#### Side A

- |        |        |        |
|--------|--------|--------|
| 1. 10  | 11. 8  | 21. 5  |
| 2. 10  | 12. 2  | 22. 5  |
| 3. 9   | 13. 10 | 23. 5  |
| 4. 1   | 14. 10 | 24. 4  |
| 5. 10  | 15. 7  | 25. 3  |
| 6. 10  | 16. 3  | 26. 10 |
| 7. 10  | 17. 3  | 27. 6  |
| 8. 0   | 18. 7  | 28. 10 |
| 9. 10  | 19. 4  | 29. 4  |
| 10. 10 | 20. 6  | 30. 10 |

#### Side B

- |        |        |        |
|--------|--------|--------|
| 1. 10  | 11. 10 | 21. 5  |
| 2. 10  | 12. 0  | 22. 5  |
| 3. 8   | 13. 10 | 23. 4  |
| 4. 2   | 14. 10 | 24. 3  |
| 5. 10  | 15. 6  | 25. 2  |
| 6. 10  | 16. 4  | 26. 10 |
| 7. 9   | 17. 2  | 27. 8  |
| 8. 1   | 18. 3  | 28. 10 |
| 9. 10  | 19. 7  | 29. 7  |
| 10. 10 | 20. 6  | 30. 10 |

**Problem Set**

- 8 circles crossed off; 1  
1 circle crossed off; 8
- 7 circles crossed off; 2  
2 circles crossed off;  $9 - 7 = 2$
- 9 circles crossed off; 0  
0 circles crossed off;  $9 - 0 = 9$
- 5-group drawing of 9; 6 circles crossed off; 3  
5-group drawing of 10; 3 circles crossed off;  $9 - 3 = 6$
- 5-group drawing of 9; 4 circles crossed off; 5  
5-group drawing of 9; 5 circles crossed off;  $9 - 5 = 4$
- 5-group drawing of 9 drawn; 3 circles crossed off; 6  
5-group drawing of 9 drawn; 6 circles crossed off;  $9 - 6 = 3$
- $4; 9 - 4 = 5;$   
9, 4, 5
- $1; 9 - 1 = 8;$  number bond showing that 8 and 1 is 9
- $2; 9 - 2 = 7;$  number bond showing that 7 and 2 is 9
- $6; 9 - 6 = 3;$  number bond showing that 6 and 3 is 9
- $9; 9 - 0 = 9; 9 - 9 = 0$
  - $1; 9 - 8 = 1; 9 - 1 = 8$
  - $7; 9 - 2 = 7; 9 - 7 = 2$
  - $3; 9 - 6 = 3; 9 - 3 = 6$
  - $4; 9 - 5 = 4; 9 - 4 = 5$

**Exit Ticket**

- $2; 9 - 7 = 2; 9 - 2 = 7$
- $6; 9 - 3 = 6; 9 - 6 = 3$
- $5; 9 - 4 = 5; 9 - 5 = 4$

**Homework**

1. 5-group drawing of 9; 2 circles crossed off; 7  
5-group drawing of 9; 7 circles crossed  
off;  $9 - 7 = 2$
2. 5-group drawing of 9; 8 circles crossed off; 1  
5-group drawing of 9; 1 circle crossed  
off;  $9 - 1 = 8$
3. 5-group drawing of 9; 4 circles crossed off; 5  
5-group drawing of 9; 5 circles crossed  
off;  $9 - 5 = 4$
4. 2;  $9 - 2 = 7$ ;  
9, 7, 2
5. 0;  $9 - 9 = 0$ ;  
9, 9, 0
6. 3;  $9 - 6 = 3$ ;  
9, 3, 6
7. 8;  $9 - 1 = 8$ ; 9, 8, 1
8. 4;  $9 - 4 = 5$ ; 9, 4, 5
9. a. 1; matched to  $9 - 1 = 8$ ;  $9 - 8 = 1$   
b. 2; matched to  $9 - 2 = 7$ ;  $9 - 7 = 2$   
c. 6; matched to  $9 - 6 = 3$ ;  $9 - 3 = 6$   
d. 4; matched to  $9 - 5 = 4$ ;  $9 - 4 = 5$   
e. 0; matched to  $9 - 9 = 0$ ;  $9 - 0 = 9$

## Lesson 38

### Problem Set

1. Answers will vary.
2. Answers will vary.
3. Answers will vary.
4. Answers will vary.
5. Answers will vary.

### Exit Ticket

1. Sequence of number sentences may vary;  $10 - 7 = 3$ ;  $3 + 7 = 10$ ;  $10 - 3 = 7$ ;  $7 + 3 = 10$
2. Sequence of number sentences may vary;  $9 - 6 = 3$ ;  $6 + 3 = 9$ ;  $9 - 3 = 6$ ;  $3 + 6 = 9$

### Homework

$2 + 2$ ;  $3 + 3$ ;  $4 + 4$ ;  $5 + 5$  doubles shaded

$2 + 5$ ;  $3 + 5$ ;  $4 + 5$  5-groups shaded

## Lesson 39

### Sprint

#### Side A

- |       |        |        |
|-------|--------|--------|
| 1. 10 | 11. 7  | 21. 10 |
| 2. 10 | 12. 9  | 22. 8  |
| 3. 10 | 13. 8  | 23. 10 |
| 4. 4  | 14. 2  | 24. 12 |
| 5. 6  | 15. 3  | 25. 12 |
| 6. 5  | 16. 1  | 26. 2  |
| 7. 5  | 17. 10 | 27. 2  |
| 8. 3  | 18. 10 | 28. 10 |
| 9. 4  | 19. 10 | 29. 10 |
| 10. 6 | 20. 4  | 30. 10 |

#### Side B

- |       |        |        |
|-------|--------|--------|
| 1. 10 | 11. 6  | 21. 10 |
| 2. 10 | 12. 5  | 22. 9  |
| 3. 10 | 13. 9  | 23. 10 |
| 4. 3  | 14. 1  | 24. 11 |
| 5. 7  | 15. 2  | 25. 11 |
| 6. 3  | 16. 2  | 26. 1  |
| 7. 5  | 17. 10 | 27. 1  |
| 8. 4  | 18. 10 | 28. 11 |
| 9. 3  | 19. 10 | 29. 9  |
| 10. 7 | 20. 5  | 30. 10 |

**Problem Set**

1. Answers will vary.
2. Answers will vary.
3. Answers will vary.
4. Answers will vary.

**Exit Ticket**

1.  $2$ ;  $10 - 8 = 2$ ;  $8 + 2 = 10$ ;  $10 - 2 = 8$ ;  $2 + 8 = 10$
2.  $2$ ;  $9 - 7 = 2$ ;  $7 + 2 = 9$ ;  $9 - 2 = 7$ ;  $2 + 7 = 9$

**Homework**

1.  $2 + 3 = 5$
2.  $2 + 4 = 6$
3.  $2 + 6 = 8$
4.  $2 + 7 = 9$
5.  $2 + 8 = 10$
6.  $3 + 4 = 7$
7.  $3 + 6 = 9$
8.  $3 + 7 = 10$
9.  $4 + 6 = 10$
10. Answers will vary; see homework example.