Name **Answer Key**          Date **Module 1**

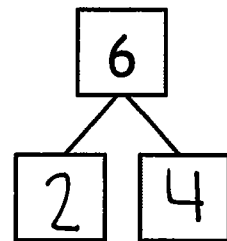Make a math drawing, and circle the part you know.
Cross out the unknown part.
Complete the number sentence and number bond.

Sample: 3 − 1 = 2

1.  Missy gets 6 presents for her birthday.  She unwraps some.  Four are still wrapped.
    How many presents did she unwrap?
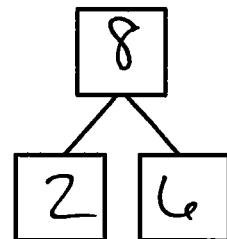
    Missy unwrapped ___2___ presents.    $6 \ominus 2 = 4$

    Number bond: 6 → 2, 4

2.  Ann has a box of 8 markers.  Some fall on the floor.  Six are still in the box.  How
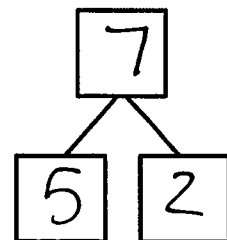    many markers fell on the floor?

    ___2___ markers fell on the floor.    $8 \ominus 2 = 6$

    Number bond: 8 → 2, 6

3.  Nick makes 7 cupcakes for his friends.  Some cupcakes were eaten.  Now, there are
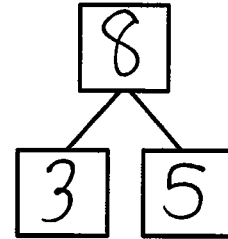    5 left.  How many cupcakes were eaten?

    ___2___ cupcakes were eaten.    $7 \ominus 2 = 5$

    Number bond: 7 → 5, 2

EUREKA MATH™  |  **Lesson 31:**   Solve *take from with change unknown* math stories with drawings.
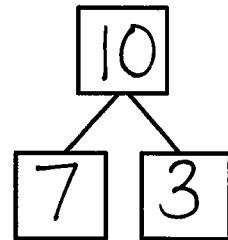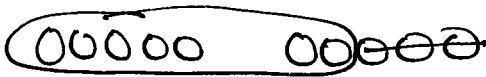
Module 1

4. A dog has 8 bones. He hides some. He still has 5 bones. How many bones are hidden?

___3___ bones are hidden.   $\boxed{8} \ominus \boxed{3} = \boxed{5}$
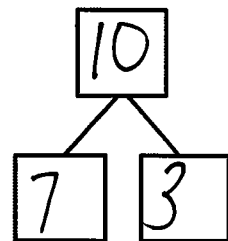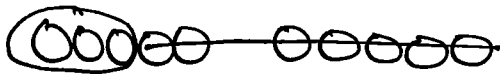
5. The cafeteria table can seat 10 students. Some of the seats are taken. Seven seats are empty. How many seats are taken?

___3___ seats are taken.   $\boxed{10} \ominus \boxed{3} = \boxed{7}$

6. Ron has 10 sticks of gum. He gives one stick to each of his friends. Now, he has 3 sticks of gum left. How many friends did Ron share with?

Ron shared with ___7___ friends.   $\boxed{10} \ominus \boxed{7} = \boxed{3}$

**EUREKA MATH™**

| Lesson 31: Solve *take from with change unknown* math stories with drawings.

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Name __Answer Key_____          Date __Mod. 1____

Match the math stories to the number sentences that tell the story.  Make a math drawing to solve.
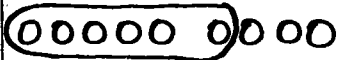
1.

a. | There are 10 flowers in a vase.
6 are red.
The rest are yellow.
How many flowers are yellow?

(OOOOO O)OOOO

$6 \, \oplus \, 3 = 9$

$9 \, \bigcirc \, 6 = 3$

b. | There are 9 apples in a basket.
6 are red.
The rest are green.
How many apples are green?

(OOOOO O)O OO

$3 \, \oplus \, 7 = 10$

$10 \, \bigcirc \, 3 = 7$

c. | Kate has her fingernails painted.
3 have designs.
The rest are plain.
How many fingernails are plain?

(OOO)OO  OOOOO

$6 \, \oplus \, 4 = 10$

$10 \, \bigcirc \, 6 = 4$

Lesson 32:    Solve *put together/take apart with addend unknown* math stories.

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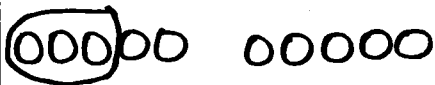
Mod. 1

Use the number bond to tell an addition and subtraction math story with pictures.
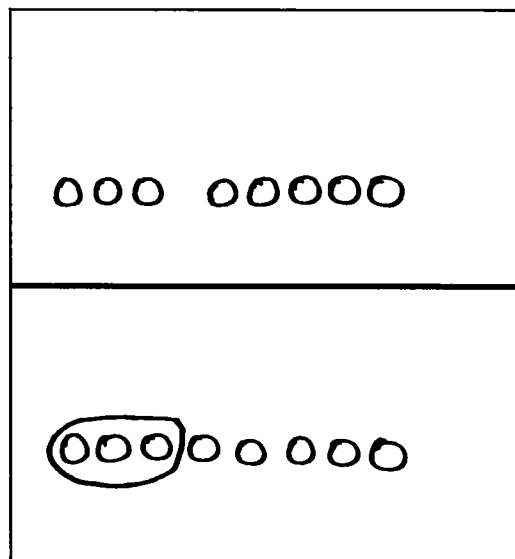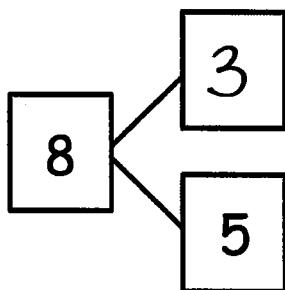Write an addition and subtraction number sentence.

2.



$\underline{\quad 3 \quad} + \underline{\quad 4 \quad} = \underline{\quad 7 \quad}$

$\underline{\quad 7 \quad} - \underline{\quad 3 \quad} = \underline{\quad 4 \quad}$

3.



$\underline{\quad 3 \quad} + \underline{\quad 5 \quad} = \underline{\quad 8 \quad}$

$\underline{\quad 8 \quad} - \underline{\quad 3 \quad} = \underline{\quad 5 \quad}$

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Lesson 32: Solve *put together/take apart with addend unknown* math stories.

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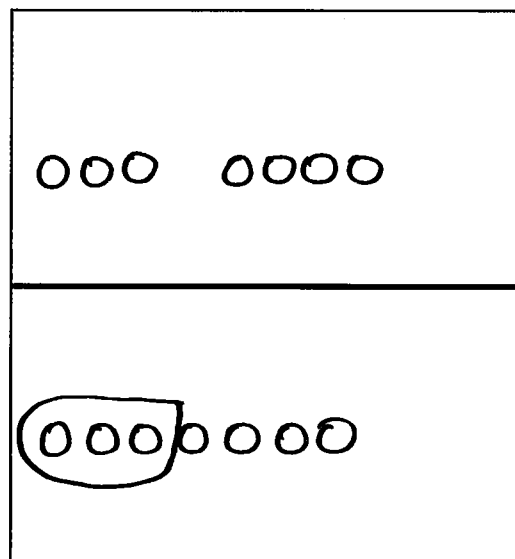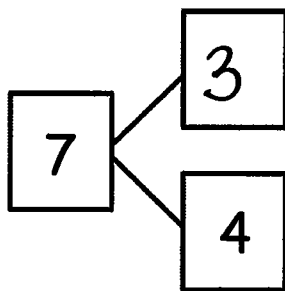
Name __Answer Key__ Date __Module 1__
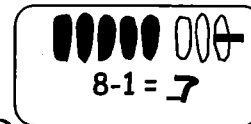
Show the subtraction. If you want, use a 5-group drawing for each problem.

| ●●●●● ○○○⊖ | 8-1 = 7 |

1.  ●●●●● ○○○⊖

    2. ●●●●● ○○○○

$9 - 1 = \underline{8}$

$9 - 0 = \underline{9}$

3.  ●●●●● ○

    4. ●●●●● ○⊖

$6 - \underline{0} = 6$

$6 = 7 - \underline{1}$

Show the subtraction. If you want, use a 5-group drawing like the model for each problem.

5.

6.

| ○○○○ ●●●●● |
| 9-1 = __ |

$9 - \underline{0} = 9$

$8 = 8 - \underline{0}$

7.

8.

$10 - \underline{1} = 9$

$7 - \underline{0} = 7$

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Write the subtraction number sentence to match the 5-group drawing.

9. ●●●●●–○  10. ●●●●● ○○  11. ●●●●● ○◁○○

$6 - 1 = 5$     $7 - 0 = 7$     $9 - 1 = 8$

12.

$9 - 0 = 9$

13.
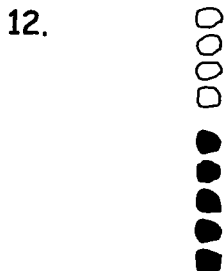
$8 - 1 = 7$

14. Fill in the missing number. Visualize your 5-groups to help you.

a. $7 - \underline{1} = 6$     b. $0 = 7 - \underline{7}$

c. $8 - \underline{1} = 7$     d. $6 - \underline{1} = 5$

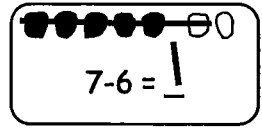e. $8 = 9 - \underline{1}$     f. $9 = 10 - \underline{1}$

g. $10 - \underline{0} = 10$     h. $9 - \underline{1} = 8$

Name **Answer Key**                    Date **Mod. 1**
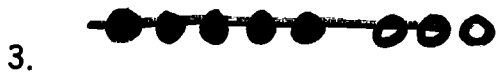
Cross off to subtract.

7-6 = __1__

1. $10 - 10 = $ __0__

2. $9 - 8 = $ __1__

Make a 5-group drawing like those above.  Show the subtraction.

3. $1 = $ __8__ $- 7$

4. $8 - $ __8__ $= 0$

5. $0 = $ __7__ $- 7$

6. $6 - $ __5__ $= 1$

Make a 5-group drawing like the model for each problem.  Show the subtraction.

7. $9 - $ __8__ $= 1$

8. $0 = 8 - $ __8__

$9 = $ __0__
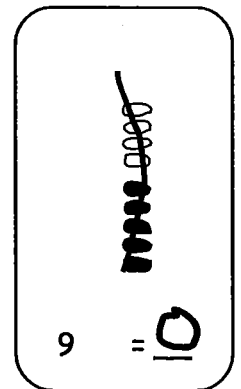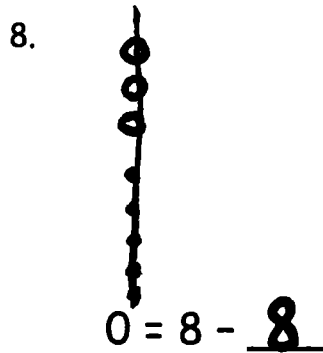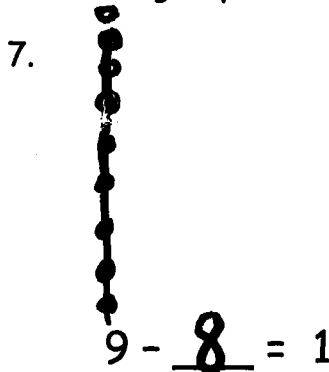
Mod. 1

Write the subtraction number sentence to match the 5-group drawing.

9.     10.     11. 

$7 - 7 = 0$        $10 - 9 = 1$        $9 - 9 = 0$

12.         13. 

$9 - 8 = 1$              $8 - 8 = 0$

14. Fill in the missing number.  Visualize your 5-groups to help you.

a. $7 - 7 = 0$          b. $1 = 7 - 6$

c. $8 - 7 = 1$          d. $6 - 6 = 0$

e. $0 = 9 - 9$          f. $1 = 10 - 9$

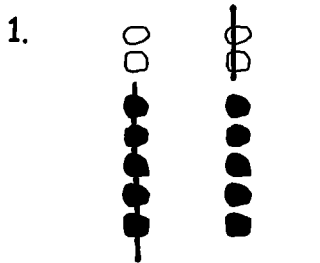g. $10 - 10 = 0$        h. $9 - 8 = 1$

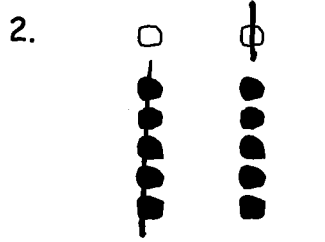Name __Answer Key__                          Date __Mod. 1__

Solve the sets of number sentences. Look for easy groups to cross off.

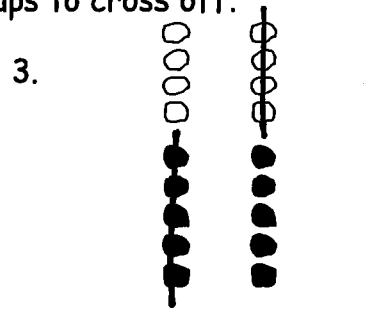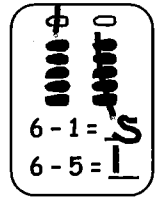1.                              2.                              3.

7 - 5 = __2__            6 - 5 = __1__            9 - __5__ = 4

7 - 2 = __5__            6 - 1 = __5__            9 - __4__ = 5

6 - 1 = __5__
6 - 5 = __1__

Subtract. Make a math drawing for each problem like the ones above. Write a number bond.

4.                              5.

10 - 5 = __5__          8 - 5 = __3__

                              8 - __3__ = 5
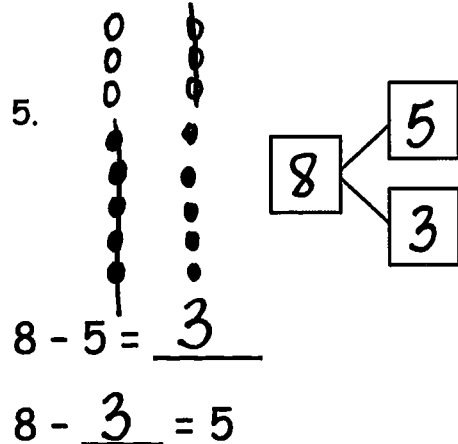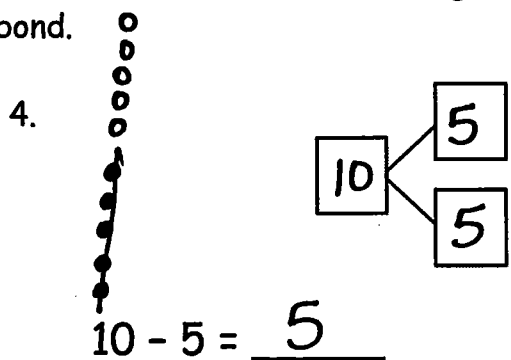
6. Solve. Visualize 5-groups to help you.

a. 9 - __5__ = 4      b. __10__ - 5 = 5      c. 8 - __3__ = 5

d. __7__ - 5 = 2      e. __8__ - 5 = 3      f. __9__ - 4 = 5

EUREKA MATH    | Lesson 35:    Relate subtraction facts involving fives and doubles to corresponding decompositions.

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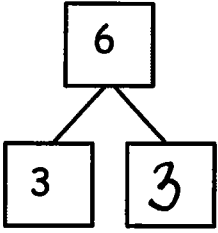
Mod. 1
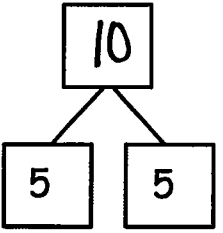
Complete the number sentence and number bond for each problem.

7.

```
  ┌─────┐
  │  6  │
  └──┬──┘
    ╱ ╲
 ┌───┐ ┌───┐
 │ 3 │ │ 3 │
 └───┘ └───┘
```

6 – 3 = __3__

8.

```
  ┌─────┐
  │ 10  │
  └──┬──┘
    ╱ ╲
 ┌───┐ ┌───┐
 │ 5 │ │ 5 │
 └───┘ └───┘
```

__10__ – 5 = 5

9.

```
        ┌───┐
        │ 4 │
 ┌───┐ ╱└───┘
 │ 8 │
 └───┘ ╲┌───┐
        │ 4 │
        └───┘
```
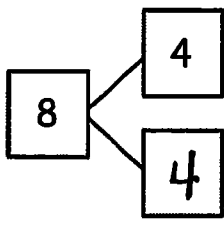
8 – __4__ = 4

10. Match the number sentence to the strategy that helps you solve.

a. 7 – __5__ = 2
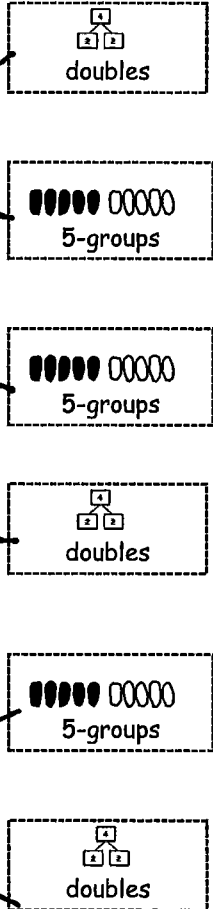
b. 8 – __5__ = 3

c. 10 – __5__ = 5

d. __6__ – 3 = 3

e. 8 – __4__ = 4

f. 9 – __4__ = 5
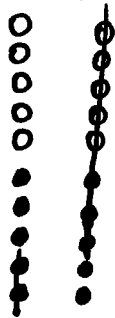
doubles

5-groups

5-groups

doubles

5-groups

doubles

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Lesson 35: Relate subtraction facts involving fives and doubles to corresponding decompositions.
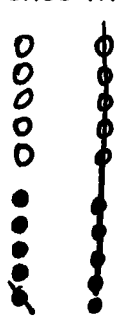
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Name **Answer Key**          Date **Mod. 1**

Make a math drawing, and solve. Use the first number sentence to help you write a  related number sentence that matches your picture.
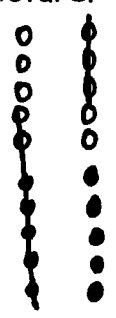
1.

10 – 2 = __8__

__10__ – __8__ = __2__

2.

10 – 1 = __9__

__10__ – __9__ = __1__
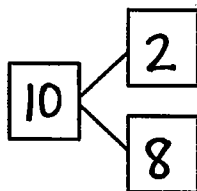
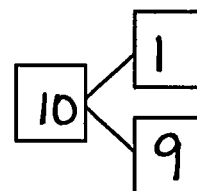3.

10 – 7 = __3__

__10__ – __3__ = __7__
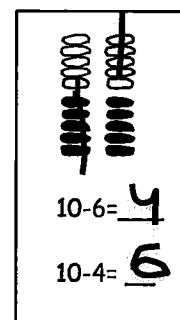
10-6= **4**

10-4= **6**

Subtract. Then, write the related subtraction sentence. Make a math drawing if needed, and complete a number bond for each.
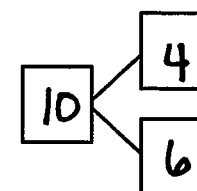
4.

10 ⟨ 2 / 8 ⟩

10 – 2 = __8__

10 – 8 = 2

5.

10 ⟨ 1 / 9 ⟩

10 – __1__ = 9

10 – 9 = 1

6.

10 ⟨ 4 / 6 ⟩

10 – __4__ = 6

10 – 6 = 4

7.

10 ⟨ 9 / 1 ⟩

10 – __9__ = 1

10 – 1 = 9

8.

10 ⟨ 5 / 5 ⟩

__5__ = 10 - 5

10 – 5 = 5

**EUREKA MATH**  | Lesson 36: Relate subtraction from 10 to corresponding decompositions.
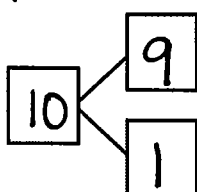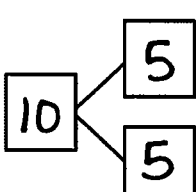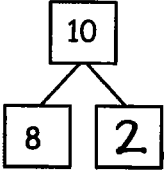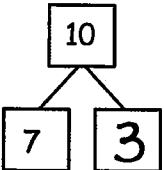
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Mod. 1

9. Complete the number bond. Match the number bond to the related subtraction sentence. Write the other related subtraction number sentence.

a.

10
8 | 2

b.

10
7 | 3

c.

4
10
6

d.

5
10
5

e.

1
10
9

10 − 5 = 5        10 − 5 = 5

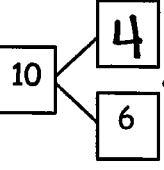10 − 1 = 9        10 − 9 = 1

10 − 2 = 8        10 − 8 = 2

10 − 4 = 6        10 − 6 = 4

10 − 3 = 7        10 − 7 = 3

**EUREKA MATH™** | Lesson 36:   Relate subtraction from 10 to corresponding decompositions.

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Name **Answer Key**     Date **Module 1**

Make 5-group drawings and solve. Use the first number sentence to help you write a related number sentence that matches your picture.

9-6=**3**
9-3=**6**

1.

$9 - 2 = 7$

$9 - 7 = 2$

2.

$9 - 8 = 1$

$9 - 1 = 8$

3.
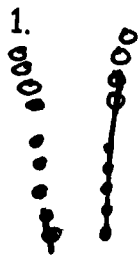
$9 - 4 = 5$

$9 - 5 = 4$

Subtract. Then, write the related subtraction sentence. Make a math drawing if needed, and complete a number bond for each.

4.

9 → 7, 2

$9 - 7 = 2$

$9 - 2 = 7$

5.

9 → 0, 9

$9 - 0 = 9$

$9 - 9 = 0$

6.

9 → 6, 3

$9 - 3 = 6$

$9 - 6 = 3$

7.

9 → 1, 8

$9 - 8 = 1$

$9 - 1 = 8$

8.

9 → 5, 4

$4 = 9 - 5$

$5 = 9 - 4$

**EUREKA MATH** | Lesson 37:    Relate subtraction from 9 to corresponding decompositions.

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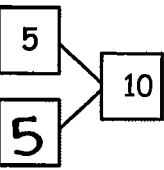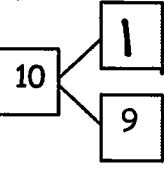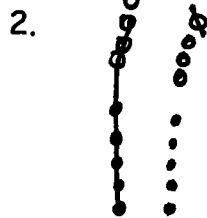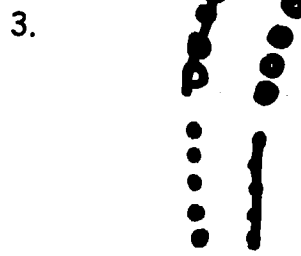
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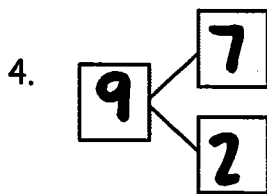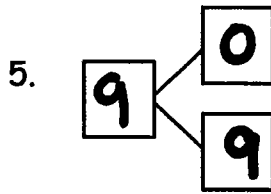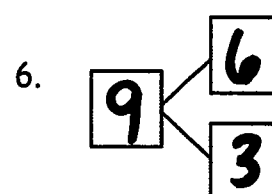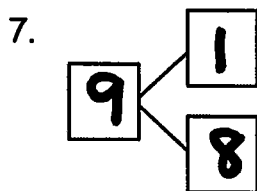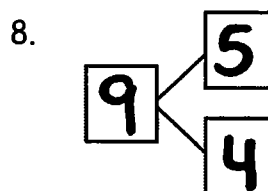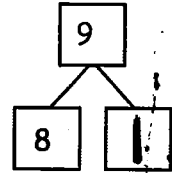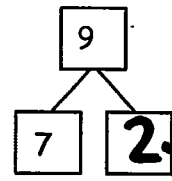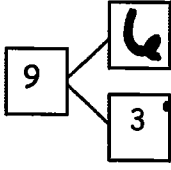
Module 1

9. Use 5-group drawings to help you complete the number bond. Match the number bond to the related subtraction sentence. Write the other related subtraction number sentence.

a.

9
8   1

9 - 5 = **4**

9 - 5 = 4

b.

9
7   2

9 - 1 = **8**

9 - 8 = 1

c.

9
4
3

9 - 2 = **7**

9 - 7 = 2

d.

5
9
4

9 - 6 = **3**

9 - 3 = 6

e.

9
0
9

9 - **9** = 0

9 - 0 = 9

Name ___Answer Key___ Date __Mod. 1__

Find and solve the 7 un-shaded addition problems that are doubles and 5-groups.

Make subtraction flashcards for the related subtraction facts. (Remember, doubles will only make 1 related subtraction fact instead of 2 related facts.)
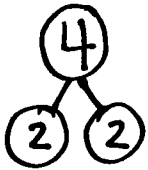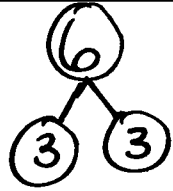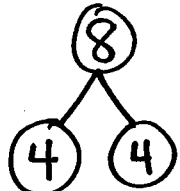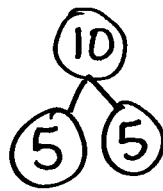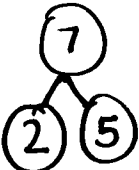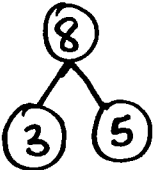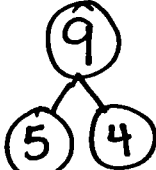
Make a number bond card, and use your cards to play Memory. ) use pencil so you can't peek through!

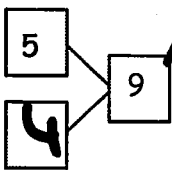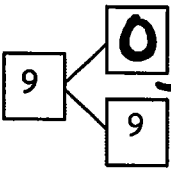| 1 + 0 | 1 + 1 | 1 + 2 | 1 + 3 | 1 + 4 | 1 + 5 | 1 + 6 | 1 + 7 | 1 + 8 | 1 + 9 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2 + 0 | 2 + 1 | (2 + 2) | 2 + 3 | 2 + 4 | (2 + 5) | 2 + 6 | 2 + 7 | 2 + 8 | |
| 3 + 0 | 3 + 1 | 3 + 2 | (3 + 3) | 3 + 4 | (3 + 5) | 3 + 6 | 3 + 7 | | |
| 4 + 0 | 4 + 1 | 4 + 2 | 4 + 3 | (4 + 4) | (4 + 5) | 4 + 6 | | | |
| 5 + 0 | 5 + 1 | 5 + 2 | 5 + 3 | 5 + 4 | (5 + 5) | | | | |
| 6 + 0 | 6 + 1 | 6 + 2 | 6 + 3 | 6 + 4 | | | | | |
| 7 + 0 | 7 + 1 | 7 + 2 | 7 + 3 | | | | | | |
| 8 + 0 | 8 + 1 | 8 + 2 | | | | | | | |
| 9 + 0 | 9 + 1 | | | | | | | | |
| 10 + 0 | | | | | | | | | |

EUREKA MATH™ | Lesson 38: Look for and make use of repeated reasoning and structure using the addition chart to solve subtraction problems

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| | |
|---|---|
| $2 + 2 = 4$ | $3 + 3 = 6$ |
| $4 + 4 = 8$ | $5 + 5 = 10$ |
| $2 + 5 = 7$ | $5 + 2 = 7$ |
| $3 + 5 = 8$ | $5 + 3 = 8$ |
| $4 + 5 = 9$ | $5 + 4 = 9$ |

Lesson 38:   Look for and make use of repeated reasoning and structure using the addition chart to solve subtraction problems

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Solve the un-shaded addition problems below.

| 1 + 0 | 1 + 1 | 1 + 2 | 1 + 3 | 1 + 4 | 1 + 5 | 1 + 6 | 1 + 7 | 1 + 8 | 1 + 9 |
|---|---|---|---|---|---|---|---|---|---|
| 2 + 0 | 2 + 1 | 2 + 2 | 2 + 3 _5_ | 2 + 4 _6_ | 2 + 5 | 2 + 6 _8_ | 2 + 7 _9_ | 2 + 8 _10_ | |
| 3 + 0 | 3 + 1 | 3 + 2 | 3 + 3 | 3 + 4 _7_ | 3 + 5 | 3 + 6 _9_ | 3 + 7 _10_ | | |
| 4 + 0 | 4 + 1 | 4 + 2 | (4 + 3) | 4 + 4 | 4 + 5 | 4 + 6 _10_ | | | |
| 5 + 0 | 5 + 1 | 5 + 2 | 5 + 3 | 5 + 4 | 5 + 5 | | | | |
| 6 + 0 | 6 + 1 | 6 + 2 | 6 + 3 | 6 + 4 | | | | | |
| 7 + 0 | 7 + 1 | 7 + 2 | 7 + 3 | | | | | | |
| 8 + 0 | 8 + 1 | 8 + 2 | | | | | | | |
| 9 + 0 | 9 + 1 | | | | | | | | |
| 10 + 0 | | | | | | | | | |

Pick an addition fact from the chart. Use the grid to write the two subtraction facts that would have the same number bond. Repeat, in order to make a set of subtraction flash cards. To help you practice your addition and subtraction facts even more, make your own number bond flash cards with the templates on the last page.

4 + 2

6 − 2 = 4
6 − 4 = 2   6  2  4

4 + 3

7 − 3 = 4
7 − 4 = 3

# *Use pencil so you can't peek    Mod. 1

| 7<br>4    3 | 7<br>3    4 | 6<br>5    1 | 6<br>1    5 |
|---|---|---|---|
| 9<br>1    8 | 9<br>8    1 | 3<br>1    2 | 3<br>2    1 |
| 8<br>6    2 | 8<br>2    6 | 9<br>6    3 | 9<br>3    6 |

**EUREKA MATH**

Lesson 39:   Analyze the addition chart to create sets of related addition and subtraction facts.

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\*Use pencil so you can't peek **Mod. 1**

| | |
|---|---|
| $7 - 3 = 4$ | $7 - 4 = 3$ |
| $6 - 5 = 1$ | $6 - 1 = 5$ |
| $9 - 1 = 8$ | $9 - 8 = 1$ |
| $3 - 1 = 2$ | $3 - 2 = 1$ |
| $8 - 6 = 2$ | $8 - 2 = 6$ |
| $9 - 6 = 3$ | $9 - 3 = 6$ |
| $5 - 4 = 1$ | $5 - 1 = 4$ |
| $7 - 5 = 2$ | $7 - 2 = 5$ |
| $10 - 6 = 4$ | $10 - 4 = 6$ |

**EUREKA MATH™**

Lesson 39:    Analyze the addition chart to create sets of related addition and subtraction facts.

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