

Learning Notes

In this unit the children will learn to subtract to 10 through the use of manipulatives.

Materials

- counters (bottle caps, pennies, paper clips, crayons, beans, etc.)
- craft sticks
- paper cups
- circle (the lid to a butter tub or a jar or a circle drawn on a piece of paper)

Teaching the Lesson

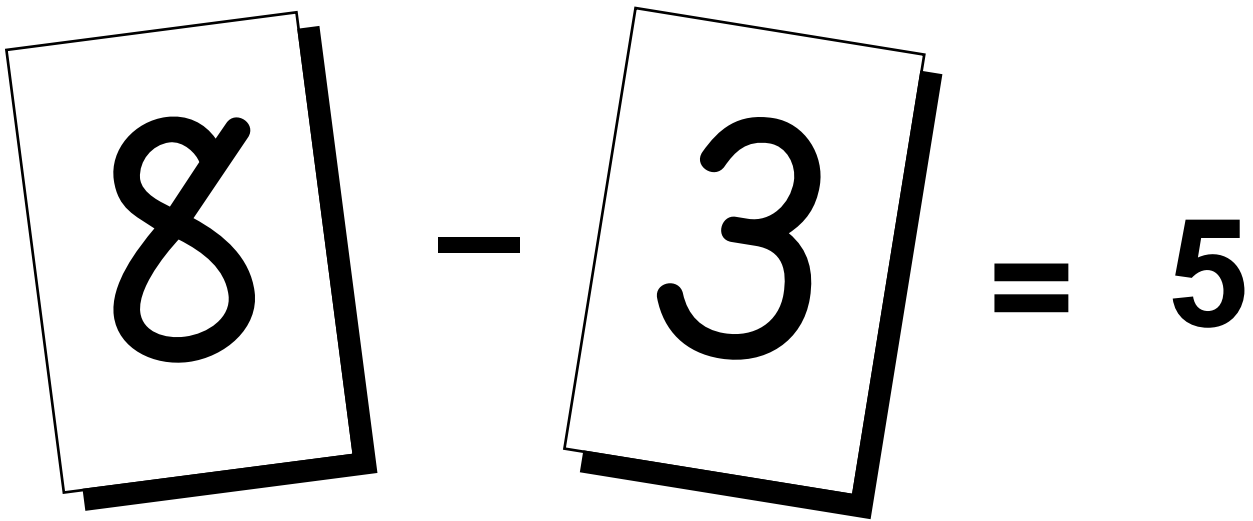
Subtracting to 10 (page 26): Model for the children how to put counters representing the largest number in the circle and take away the number representing the minuend (the number being subtracted). Ask the children to count the remaining counters (those still in the circle) with you. Write the answer on the line.

Subtracting to 10 with Craft Sticks (page 27): Use the same procedure outlined above but with craft sticks.

Using the Subtraction Fact Family (page 28): Review the fact family with the children. Practice several examples together before beginning the practice page.

Extension Idea

Cut eleven 3" x 5" (8 cm x 13 cm) cards in half. Make two sets of cards numbered 0–10. Shuffle the cards together and place them in one stack facedown. Take the top two cards and use them to make a subtraction problem. Remind the children that when subtracting, always start with the larger number first.

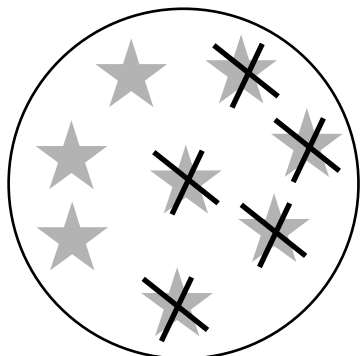


The image shows a subtraction problem using cards. On the left is a card with the number 8. In the middle is a minus sign. On the right is a card with the number 3. To the right of that is an equals sign, followed by a card with the number 5. The cards are slightly tilted and have thick black borders.

$$8 - 3 = 5$$

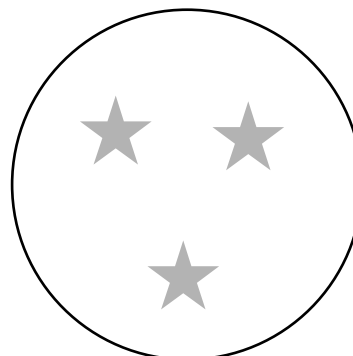
When subtracting, one number is being *taken away* from a larger number.

Example:



$8 - 5$

=



3

Complete each subtraction problem.

1. $10 - 8 = \underline{\quad}$

7. $10 - 10 = \underline{\quad}$

2. $8 - 6 = \underline{\quad}$

8. $6 - 5 = \underline{\quad}$

3. $7 - 2 = \underline{\quad}$

9. $9 - 0 = \underline{\quad}$

4. $6 - 1 = \underline{\quad}$

10. $7 - 5 = \underline{\quad}$

5. $9 - 8 = \underline{\quad}$

11. $10 - 5 = \underline{\quad}$

6. $8 - 4 = \underline{\quad}$

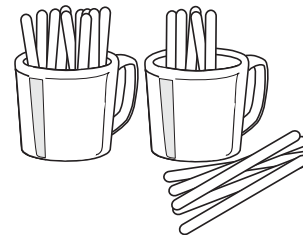
12. $8 - 1 = \underline{\quad}$

When subtracting to 10, craft sticks and a paper cup can be used to solve each problem.

For example: $10 - 5 = \underline{\quad}$

Put 10 craft sticks in the cup, remove 5, and count how many craft sticks are left.

Use craft sticks to solve the subtraction problems.



Write the answer on the line.

1. $10 - 7 = \underline{\quad}$

11. $9 - 1 = \underline{\quad}$

2. $5 - 4 = \underline{\quad}$

12. $3 - 3 = \underline{\quad}$

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

13. $4 - 1 = \underline{\quad}$

4. $10 - 3 = \underline{\quad}$

14. $10 - 2 = \underline{\quad}$

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

15. $8 - 5 = \underline{\quad}$

6. $6 - 3 = \underline{\quad}$

16. $7 - 1 = \underline{\quad}$

7. $10 - 4 = \underline{\quad}$

17. $6 - 4 = \underline{\quad}$

8. $9 - 4 = \underline{\quad}$

18. $7 - 0 = \underline{\quad}$

9. $7 - 3 = \underline{\quad}$

19. $9 - 5 = \underline{\quad}$

10. $6 - 0 = \underline{\quad}$

20. $3 - 2 = \underline{\quad}$

21. On the back of this paper, make a list of all of the math problems that had 3 as the answer.

6

Practice

..... Using the Subtraction Fact Family

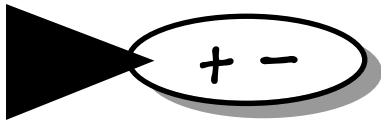
Write the other subtraction problem that belongs in the same fact family. The first one has been done for you.

1. $10 - 4 = 6$ $10 - 6 = 4$	5. $6 - 0 = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$
2. $8 - 6 = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$	6. $4 - 3 = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$
3. $9 - 2 = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$	7. $10 - 1 = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$
4. $7 - 4 = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$	8. $5 - 2 = \underline{\quad}$ $\underline{\quad} - \underline{\quad} = \underline{\quad}$

Review

Use counters or craft sticks to solve the problems below. Write the answer to each problem below the line.

9. $\begin{array}{r} 10 \\ - 0 \\ \hline \end{array}$	10. $\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$	11. $\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$	12. $\begin{array}{r} 5 \\ - 5 \\ \hline \end{array}$	13. $\begin{array}{r} 10 \\ - 6 \\ \hline \end{array}$	14. $\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$
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Answer Key

page 6

- 4
- 8
- 0
- 10
- 5
- 6
- 3
- 9
- 1
- 7

Now Try This: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

page 7

- 3 sides, 3 corners
- 4 sides, 4 corners
- 0 sides, 0 corners
- 6 sides, 6 corners
- Answers will vary.

page 8

- already done
- 2, 6
- 5, 9
- 4, 0
- 8, 10
- 8, 2
- already done
- 3, ①
- 10, ④
- 8, ⑥
- ①, 3
- 7, ⑥

Now Try This: 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0

page 10

- 5
- 7
- 6
- $1 + 3 = 4$
- $4 + 1 = 5$
- $5 + 1 = 6$

page 11

- 0
- 4
- 3
- 1
- 6
- 2
- 6
- 6
- 4
- 2

- 11 and 12. $1 + 2 = 3$
 $2 + 1 = 3$

page 12

Answers will vary.

page 14

- 7
- 9
- 9
- 9
- 10
- 9
- 8
- 8
- 7
- 8
- 10
- 10

page 15

- 8
- 5
- 7
- 6
- 7
- 8
- 8
- 9
- 10
- 0
- already done
- $4 + 6 = 10$
 $6 + 4 = 10$
- $1 + 9 = 10$
 $9 + 1 = 10$
- $2 + 8 = 10$
 $8 + 2 = 10$
- 6
- 5
- 4
- 5
- 4

page 16

- 2 baskets, sentences will vary.
- 18 strawberries, sentences will vary.

page 18

- 12
- 14
- 18
- 15
- 18
- 7

- 12
- 13
- 16
- 11
- 14
- 16
- 14
- 17
- 11
- 18
- 18
- 16

page 19

- 16
- 14
- 14
- 15
- 17
- 12
- 15
- 17
- 18
- 14
- 16
- 15
- 13
- 14
- 16
- 16
- 15
- 15
- 12
- 10
- 12
- 6
- 9

page 20

- $7 + 5$, 12
- $9 + 8$, 17
- $10 + 4$, 14
- $6 + 6$, 12
- $3 + 11$, 14
- $2 + 12$, 14
- $8 + 9$, 17
- $14 + 0$, 14
- Answers will vary.

page 22

- 3
- 2
- 0
- 3
- 1
- 1

Page 23

- $6 - 1 = 5$
- $4 - 1 = 3$
- $5 - 3 = 2$
- $3 - 2 = 1$
- $2 - 0 = 2$
- $6 - 2 = 4$
- $4 - 4 = 0$

page 24

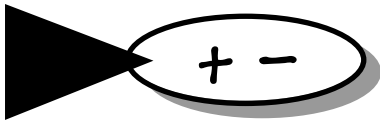
- 0
- 2
- 4
- 2
- 2
- 0
- 1
- 4
- 0
- 4
- 3
- 0
- and 14. $3 - 2 = 1$,
 $3 - 1 = 2$

page 26

- 2
- 2
- 5
- 5
- 1
- 4
- 0
- 1
- 9
- 2
- 5
- 7

page 27

- 3
- 1
- 0
- 7
- 5
- 3
- 6
- 5
- 4
- 6
- 8
- 0
- 3
- 8
- 3
- 6
- 2
- 7
- 4
- 1
- $10 - 7 = 3$, $6 - 3 = 3$,
 $4 - 1 = 3$, $8 - 5 = 3$



Answer Key

page 28

1. already done
2. $8 - 6 = 2$, $8 - 2 = 6$
3. $9 - 2 = 7$, $9 - 7 = 2$
4. $7 - 4 = 3$, $7 - 3 = 4$
5. $6 - 0 = 6$, $6 - 6 = 0$
6. $4 - 3 = 1$, $4 - 1 = 3$
7. $10 - 1 = 9$, $10 - 9 = 1$
8. $5 - 2 = 3$, $5 - 3 = 2$
9. 10

10. 3
11. 6
12. 0
13. 4
14. 1

page 30

1. 6
2. 9
3. 18
4. 9
5. 9
6. 1
7. 7
8. 10
9. 4
10. 4
11. 6
12. 3
13. 6
14. 7
15. 10
16. 10
17. 1
18. 1

page 31

1. 3
2. 5
3. 4
4. 2
5. 4
6. 4
7. 14
8. 8
9. 4
10. 8
11. 6
12. 5
13. 2
14. 6
15. 9
16. 15
17. 8

18. 9
19. 10
20. 11
21. 1
22. 11
23. 2
24. 0
25. 5
26. 0

page 32

1. 8
2. 9
3. 8
4. 7
5. 12
6. 12
7. 7
8. 2
9. Answers will vary.

page 34

1. 1
2. 9
3. 10
4. 2
5. 0
6. 7
7. 7
8. 8
9. 0
10. 17
11. 8
12. 9
13. 0
14. 10
15. 10
16. 1
17. 0
18. 0
19. subtract
20. subtract
21. add
22. add

page 35

1. 6
2. 16
3. 6
4. 14
5. 13
6. 12
7. 11
8. 6
9. 4
10. 10

page 36

1. already done
2. $7 + 8 = 15$
 $8 + 7 = 15$
 $15 - 7 = 8$
 $15 - 8 = 7$
3. $6 + 9 = 15$
 $9 + 6 = 15$
 $15 - 6 = 9$
 $15 - 9 = 6$
4. $4 + 11 = 15$
 $11 + 4 = 15$
 $15 - 4 = 11$
 $15 - 11 = 4$
5. $3 + 12 = 15$
 $12 + 3 = 15$
 $15 - 3 = 12$
 $15 - 12 = 3$
6. $5 + 10 = 15$
 $10 + 5 = 15$
 $15 - 5 = 10$
 $15 - 10 = 5$
7. All of the addends in each problem make 15.

Challenge: Answers will vary.

page 38

1. Already done
2. 5 tens, 7 ones, 57
3. 9 tens, 3 ones, 93
4. 5 tens, 0 ones, 50
5. 6 tens, 5 ones, 65
6. 2 tens, 1 one, 21
7. 4 tens, 9 ones, 49
8. 2 tens, 2 ones, 22
9. 6 tens, 8 ones, 68
10. 16, 21, 22, 49, 50, 57, 65, 68, 93

page 39

1. 69
2. 50
3. 59
4. 88
5. 89
6. 95
7. 90
8. 49
9. 66
10. 58
11. 95
12. 98
13. 80

14. 97
15. 28
16. 99
17. 99
18. 60
19. 62
20. 21
21. 21
22. 10
23. 30
24. 1
25. 0
26. 31
27. 5
28. 5
29. 34
30. 30
31. 21
32. 15
33. 40
34. 62
35. 32
36. 0

page 40

Answers will vary.

page 41

6 different combos:

c-v-s	v-c-s
c-s-v	s-c-v
v-s-c	s-v-c

pages 42 and 43

Answers will vary.

page 44

R-G	O-P
R-B	Y-G
R-P	Y-B
O-G	Y-P
O-B	9 outfits