

Learning Notes

Children learn and practice the vocabulary of math. They compare numbers using the symbols greater than ($>$) and less than ($<$) and use ordinal numbers to determine place or location.

Materials

- pictures from magazines or catalogs
- heavy paper
- scissors
- glue
- pocket chart (optional)
- heavy paper

Teaching the Lesson

Go over the math vocabulary with the children: addend, sum, minuend, difference, greater than, and less than. Ask the children if they know what the words mean. Use math problems to illustrate the meaning of each word.

For example, using the equation $3 + 9 = 12$, ask: “Children, what are the two addends in this problem?” and “What is the sum of the two addends?”

Another example is $12 - 9 = 3$. Ask: “Children, what is the difference?” and “What is the minuend?” Write $3 > 0$; $4 > 0$; $1 < 5$. Ask the children if they notice a pattern. Ask: “What is the pattern?” and “What does the pattern mean?” Tell the children that the $<$ and $>$ symbols mean less than and greater than. The large opening always points towards the larger number. Read the number sentences aloud, “3 is greater than 0; 4 is greater than 0; 1 is less than 5.”

Do this several times with different math problems so that the children feel comfortable using the words.

Have the children cut pictures out of catalogs and magazines. Glue each picture on a piece of heavy paper. Place the pictures in a line on the chalkboard ledge, in a pocket chart, or on a table. Have the children pick up the picture that is third in line, first in line, last in line, 19th in line, etc. Explain that these words are ordinals. *Ordinals* tell the place or location of something.

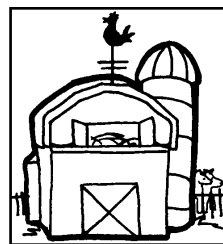
Go over each work sheet with the children.



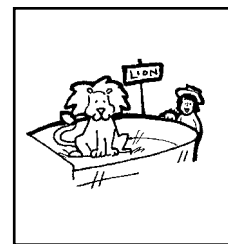
first



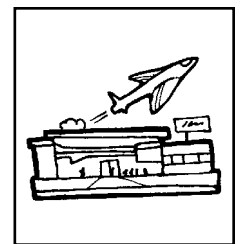
second



third



fourth



fifth

Ordinals

Math has a special vocabulary that is used to describe numbers and different math processes.

In addition, the two (or more) numbers being added together are called **addends**. The total of the two numbers is called the **sum**.

$$\begin{array}{r} 123 \\ + 140 \\ \hline 263 \end{array}$$

addend + addend = sum

Write the answer to each addition problem. Use a green crayon to circle the addends. Use a blue crayon to circle the sums.

1.
$$\begin{array}{r} 123 \\ + 300 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 160 \\ + 125 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 407 \\ + 312 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 525 \\ + 330 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 222 \\ + 333 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 709 \\ + 270 \\ \hline \end{array}$$

Read each word problem. Answer the questions.

Josephine collected 227 green rocks and 352 red rocks. Josephine has 579 rocks in all.

7. What are the two addends? _____

8. What is the sum? _____

Diego has 419 fish stamps and 560 jelly fish stamps. Diego has 979 stamps in all.

9. What are the two addends? _____

10. What is the sum? _____

Read each word problem. Write the two addends and the sum.

11. Bill took 255 pictures on Monday and 400 on Tuesday. How many pictures did Bill take in all? _____

$$\begin{array}{r} \boxed{} \\ + \boxed{} \\ \hline \end{array}$$

12. Sally collected 158 seashells today and 511 yesterday. How many seashells does Sally have now? _____

$$\begin{array}{r} \boxed{} \\ + \boxed{} \\ \hline \end{array}$$

Using Subtrahend, Minuend, and Difference

Math has a special vocabulary that is used to describe numbers and different math processes.

Subtraction is the process of removing one amount from a larger amount. The number that is being subtracted from is the **minuend**. The number being removed (or taken away) is called the **subtrahend**. The answer is called the **difference**.

$$\begin{array}{r} 567 \\ - 231 \\ \hline 334 \end{array}$$

minuend - **subtrahend** = **difference**

Look at the subtraction problems below. Use a red crayon to circle the difference.

1. $\begin{array}{r} 871 \\ - 550 \\ \hline 321 \end{array}$	2. $\begin{array}{r} 985 \\ - 674 \\ \hline 311 \end{array}$	3. $\begin{array}{r} 860 \\ - 260 \\ \hline 600 \end{array}$	4. $\begin{array}{r} 358 \\ - 117 \\ \hline 241 \end{array}$	5. $\begin{array}{r} 711 \\ - 400 \\ \hline 311 \end{array}$	6. $\begin{array}{r} 651 \\ - 330 \\ \hline 321 \end{array}$
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Read each word problem. Answer the questions.

Reginald had 749 stickers. He gave 539 to his brother. Reginald now has 210 stickers left.

7. What is the minuend? _____
8. What is the difference? _____
9. What is the subtrahend? _____

Sophie planted 428 sunflower seeds. The crows ate 118 of the seeds. There are only 310 sunflower seeds left to grow.

10. What is the minuend? _____
11. What is the difference? _____
12. What is the subtrahend? _____

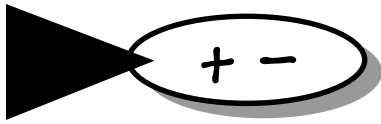
Read each word problem. Write the math problem and the difference.

13. Jerome saved 567 pennies. He spent 246 pennies at the toy store. How many pennies does Jerome have left?

$$\begin{array}{r} \boxed{} \\ - \\ \hline \end{array}$$

14. Cecilia had 821 buttons in her collection. She gave 301 buttons to her friend. How many buttons does Cecilia have left?

$$\begin{array}{r} \boxed{} \\ - \\ \hline \end{array}$$



Answer Key

Page 6

- | | | |
|--------|--------|------------|
| 1. 18 | 16. 0 | 31. 6 |
| 2. 10 | 17. 12 | 32. 5 |
| 3. 16 | 18. 4 | 33. - |
| 4. 11 | 19. 17 | 34. + |
| 5. 14 | 20. 9 | 35. + |
| 6. 3 | 21. 11 | 36. - |
| 7. 7 | 22. 8 | 37. + |
| 8. 9 | 23. 16 | 38. - |
| 9. 15 | 24. 15 | 39. + |
| 10. 12 | 25. 14 | 40. + or - |
| 11. 11 | 26. 0 | 41. + |
| 12. 0 | 27. 10 | 42. - |
| 13. 0 | 28. 0 | 43. + |
| 14. 8 | 29. 0 | 44. + |
| 15. 0 | 30. 17 | |

Page 7

- | | |
|--------|---------------------------------|
| 1. 18 | 11. 15 |
| 2. 18 | 12. 15 |
| 3. 17 | 13. 18 |
| 4. 17 | 14. 18 |
| 5. 18 | 15. 14 |
| 6. 18 | 16. 14 |
| 7. 14 | 17. $7 + 5 = 12$ |
| 8. 14 | 18. $5 + 7 = 12$ |
| 9. 14 | 19. Sentences will vary. |
| 10. 14 | 20. $5 + 8 = 13$, $8 + 5 = 13$ |

Page 8

- $3 + 7 = 10$; $7 + 3 = 10$; $10 - 7 = 3$;
 $10 - 3 = 7$
- $4 + 9 = 13$; $9 + 4 = 13$; $13 - 9 = 4$;
 $13 - 4 = 9$
- $2 + 15 = 17$; $15 + 2 = 17$;
 $17 - 2 = 15$; $17 - 15 = 2$
- $6 + 11 = 17$; $11 + 6 = 17$;
 $17 - 6 = 11$; $17 - 11 = 6$
- $1 + 16 = 17$; $16 + 1 = 17$;
 $17 - 1 = 16$; $17 - 16 = 1$
- $5 + 13 = 18$; $13 + 5 = 18$;
 $18 - 5 = 13$; $18 - 13 = 5$
- +, -
- , +
- +, + or -
- +, -
- , +
- +, -
- $16 - 6 = 10 - 3 = 7$ horses
- $6 - 3 = 3$ more sheep
- $7 - 3 = 4$ more horses
- $7 - 6 = 1$ fewer sheep
- sheep + horses ($6 + 7 = 13$)
- horses - sheep ($7 - 6 = 1$)

Page 10

- addends 123, 300; sum 423
- addends 160, 125; sum 285
- addends 407, 312; sum 719
- addends 525, 330; sum 855
- addends 222, 333; sum 555
- addends 709, 270; sum 979
- 227, 352
- 579
- 419, 560
- 979
- $255 + 400 = 655$
- $158 + 511 = 669$

Page 11

- 321
- 311
- 600
- 241
- 311
- 321
- 749
- 210
- 539
- 428
- 310
- 118
- $567 - 246 = 321$
- $821 - 301 = 520$

Page 12

- $376 > 259$; 376 is greater than 259.
- $923 > 675$; 923 is greater than 675.
- $987 > 255$; 987 is greater than 255.
- $550 < 777$; 550 is less than 777.
- $800 > 250$; 800 is greater than 250.
- $205 < 353$; 205 is less than 353.
- $148 < 579$; 148 is less than 579.
- $315 > 188$; 315 is greater than 188.
- 1st
- 5th
- 10th
- 6th
- 9th
- 3rd

Pages 15 and 16

Answers will vary.

Page 18

- | | | |
|-------|---------|-----------|
| 1. 40 | 7. 300 | 13. 8,000 |
| 2. 30 | 8. 600 | 14. 8,000 |
| 3. 40 | 9. 500 | 15. 4,000 |
| 4. 60 | 10. 600 | 16. 6,000 |
| 5. 70 | 11. 800 | 17. 9,000 |
| 6. 90 | 12. 900 | 18. 2,000 |

Page 19

- $40 + 20 = 60$; 60 children were invited to the party.
- $150 + 130 + 210 = 490$; Mariah bought 490 items in all.
- $190 - 90 = 100$; 100 people said "no."
- $210 + 320 + 60 = 590$; Lucy set out 590 jellybeans.
- $570 - 240 = 330 - 200 = 130$; The third cupcake had 130 sprinkles.
- $220 + 300 + 370 = 890$; 890 points were scored in all.

Page 20

- H 300
- T 30
- Th 1,000 or H 1,100 or T 1,090
- T 10
- H 800 or T 820
- Th 2,000 or H 2,400 or T 2,370
- T 50
- Th 4,000 or H 4,000 or T 4,030
- Th 1,000 or H 700
- Th 6,000 or H 6,000 or T 5,960
- $100 + 400 = 500$
- $600 - 300 = 300$

- $500 + 300 = 800$
- $900 - 800 = 100$
- $500 + 200 = 700$
- $700 - 600 = 100$
- $800 + 100 = 900$
- $500 - 400 = 100$

Page 22

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|----------|------------|
| 1. 993 | 9. 47,982 |
| 2. 353 | 10. 68,670 |
| 3. 982 | 11. 88,795 |
| 4. 735 | 12. 58,995 |
| 5. 8,972 | 13. 9,991 |
| 6. 8,992 | 14. 8,871 |
| 7. 9,772 | 15. 52,993 |
| 8. 9,991 | 16. 19,960 |

Page 23

- 518
- $518 + 355 = 873$
- 468
- $468 + 503 = 971$
- 339
- $339 + 136 = 475$
- 4,559
- $4,559 + 3,338 = 7,897$
- 1,659
- $1,659 + 4,001 = 5,660$
- 6,115
- $6,115 + 1,859 = 7,974$

Page 24

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|-----------|------------|
| 1. 72,718 | 10. 777 |
| 2. 7,951 | 11. 45,785 |
| 3. 777 | 12. 2,343 |
| 4. 72,718 | 13. 7,951 |
| 5. 6,840 | 14. 10,727 |
| 6. 2,117 | 15. 2,343 |
| 7. 31,016 | 16. 963 |
| 8. 45,785 | |
| 9. 76,670 | |

Message: Regrouping is easy!

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|----------|----------------------|
| 1. 821 | |
| 2. 737 | 9. 73,204 |
| 3. 738 | 10. 185; tens |
| 4. 802 | 11. 3,589; tens |
| 5. 8,820 | 12. 879; hundreds |
| 6. 4,130 | 13. 3,713; thousands |
| 7. 6,725 | 14. 679; tens |
| 8. 9,503 | 15. 5,003; thousands |

Page 27

- 369
- 588
- 89
- 58
- 2,779
- 3,074
- 2,174
- 5,364
- 4,059
- 651, 661, 671
- 1,096; 1,101; 1,111
- 1,478; 1,484; 1,487
- 4,064, 4,054, 4,044
- 79,520; 79,620; 79,720; 79,820