BASIC REVIEW

LET'S DO A QUICK REVIEW ON WHAT YOU SHOULD KNOW BEFORE LEARNING TO SUBTRACT.

WELL, IF YOU THINK ABOUT IT...I SUPPOSE WE SHOULD KNOW HOW TO ADD.

YOU'RE TOTALLY RIGHT, POE. ADDING IS PROBABLY THE MOST IMPORTANT THING TO KNOW.

SO LET'S GET STARTED.

THE BASICS

YOU SHOULD REMEMBER YOUR BASIC ADDITION FACTS.

1. $3 + 5 =$ _____		2. $4 + 9 =$ _____
3. $6 + 8 =$ _____		4. $6 + 0 =$ _____
5. $2 + 3 =$ _____		6. $8 + 4 =$ _____
7. $9 + 7 =$ _____		8. $0 + 5 =$ _____
9. $8 + 2 =$ _____		10. $1 + 9 =$ _____
11. $0 + 8 =$ _____		12. $3 + 2 =$ _____
13. $5 + 6 =$ _____		14. $7 + 4 =$ _____
15. $8 + 3 =$ _____		16. $4 + 8 =$ _____
17. $3 + 0 =$ _____		18. $6 + 7 =$ _____
19. $1 + 3 =$ _____		20. $2 + 5 =$ _____
21. $8 + 5 =$ _____		22. $5 + 7 =$ _____
23. $7 + 2 =$ _____		24. $9 + 9 =$ _____

INTRODUCTION TO SUBTRACTION (-)

SUBTRACTION TELLS US HOW MUCH IS LEFT WHEN ONE NUMBER IS TAKEN AWAY FROM ANOTHER NUMBER. THIS IS SHOWN BY USING A MINUS SIGN (-).
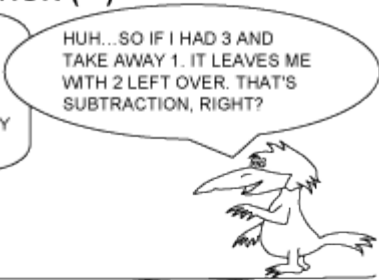
HUH...SO IF I HAD 3 AND TAKE AWAY 1. IT LEAVES ME WITH 2 LEFT OVER. THAT'S SUBTRACTION, RIGHT?
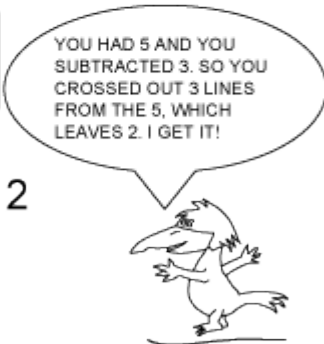
EXACTLY, SUBTRACTION IS THE OPPOSITE OF ADDITION.

I GET IT. ADDITION YOU ARE PUTTING NUMBERS TOGETHER, BUT SUBTRACTION YOU'RE TAKING AWAY.

VERY GOOD, POE. WHEN I FIRST LEARNED SUBTRACTION I LIKED TO USE LINES OR PICTURES TO SHOW WHAT I AM TAKING AWAY. DO YOU SEE WHAT I DID HERE?

YOU HAD 5 AND YOU SUBTRACTED 3. SO YOU CROSSED OUT 3 LINES FROM THE 5, WHICH LEAVES 2. I GET IT!

$$5 - 3 = 2$$

I DRAW LINES ON WALL.

PRACTICE - C

HELPFUL EXAMPLE

5 - 2 = __3__

1. DRAW 5 LINES
2. CROSS 2 LINES OUT
3. COUNT HOW MANY ARE LEFT.

1.   4 - 1 = _____

2.   6 - 5 = _____

3.   3 - 2 = _____

4.   7 - 6 = _____

5.   6 - 3 = _____

6.   4 - 4 = _____

7.   8 - 2 = _____

8.   6 - 3 = _____

9.   2 - 0 = _____

10. 7 - 4 = _____

11. 6 - 4 = _____

12. 8 - 5 = _____

13. 3 - 1 = _____

14. 0 - 0 = _____

15. 7 - 5 = _____

16. 2 - 2 = _____

17. 9 - 8 = _____

18. 5 - 3 = _____

19. 3 - 0 = _____

20. 7 - 2 = _____
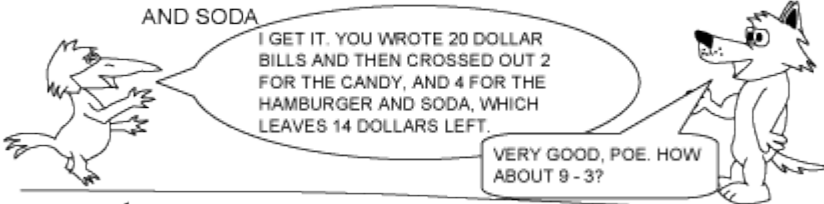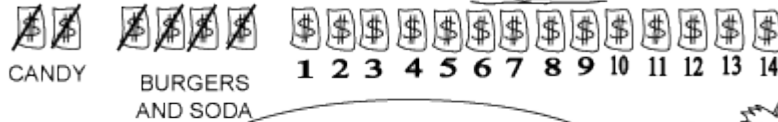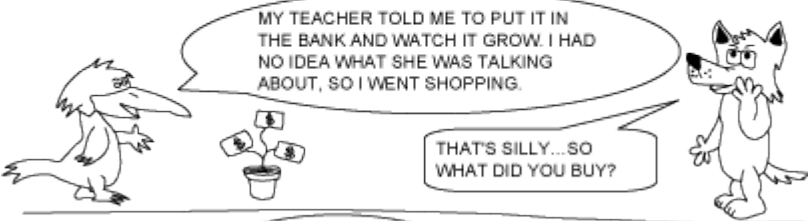
PRACTICE - C

1. 6 - 3 - 2 = ___
2. 9 - 3 - 5 = ___

3. 8 - 2 - 4 = ___
4. 5 - 1 - 2 = ___

5. 3 - 0 - 2 = ___
6. 8 - 3 - 3 = ___

7. 7 - 1 - 1 = ___
8. 10 - 1 - 4 = ___

9. 5 - 2 - 3 = ___
10. 7 - 0 - 6 = ___

11. 9 - 5 - 1 = ___
12. 5 - 2 - 2 = ___

13. 11 - 6 - 2 = ___
14. 9 - 5 - 4 = ___

15. 4 - 1 - 2 = ___
16. 7 - 3 - 2 = ___

17. 8 - 4 - 0 = ___
18. 9 - 4 - 4 = ___

19. 5 - 3 - 1 = ___
20. 12 - 7 - 2 = ___

MEMORIZING THE BASIC FACTS

HEY MAX. I REMEMBER THAT I HAD TO MEMORIZE THE BASIC ADDITION FACTS. DO WE HAVE TO DO THE SAME FOR SUBTRACTION?
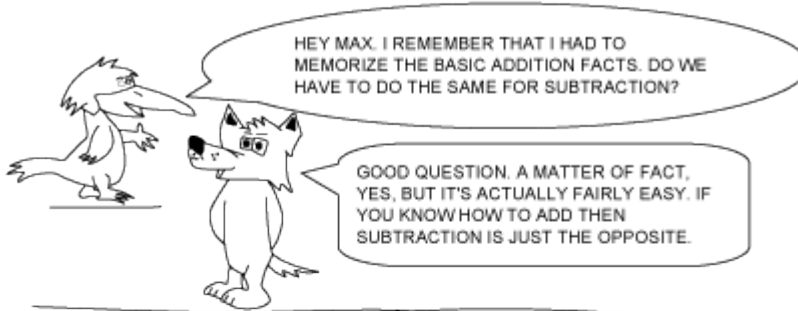
GOOD QUESTION. A MATTER OF FACT, YES, BUT IT'S ACTUALLY FAIRLY EASY. IF YOU KNOW HOW TO ADD THEN SUBTRACTION IS JUST THE OPPOSITE.

SORRY, YOU KIND OF LOST ME THERE. WHAT DO YOU MEAN OPPOSITE?

IF YOU KNOW THAT 3 + 7 = 10, THEN YOU KNOW THAT 10 - 7 = 3. TO GIVE YOU A BETTER IDEA ON WHAT I AM TALKING ABOUT LOOK AT THE PROBLEMS BELOW.

DO YOU SEE THAT ALL THE SAME NUMBERS ARE BEING USED IN BOTH PROBLEMS?

TOTALLY...I SEE THAT THE 3, 7, AND 10 ARE USED.

$$3 + 7 = 10$$
$$10 - 7 = 3$$

EXACTLY, WHICH MEANS YOU ALREADY KNOW THAT 3 + 7 = 10, AND IF YOU WORK BACKWARDS YOU SEE THAT 10 - 7 = 3.

I THINK I NEED TO PRACTICE BEFORE THIS SINKS IN.
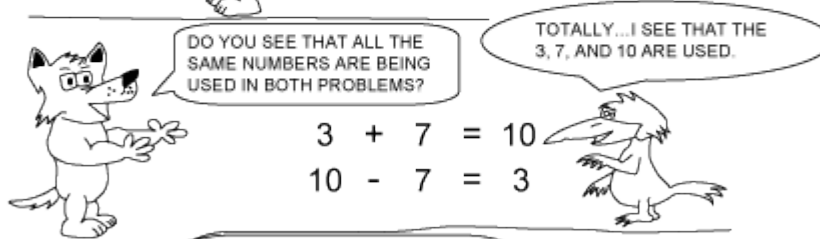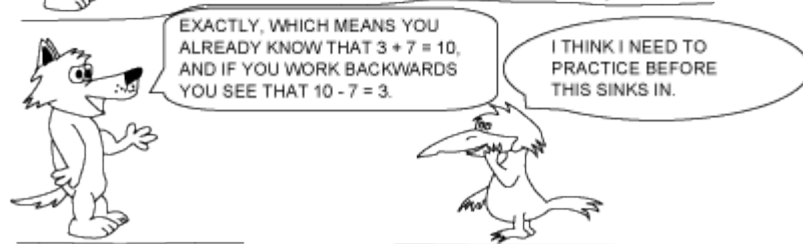
PRACTICE - C

4 + 3 = 7, BUT IF YOU GO BACKWARDS, 7 - 3 = 4. SO IF YOU KNOW YOUR ADDING YOU KNOW HOW TO SUBTRACT.

HELPFUL EXAMPLE

$+$ $=$

4   3   7
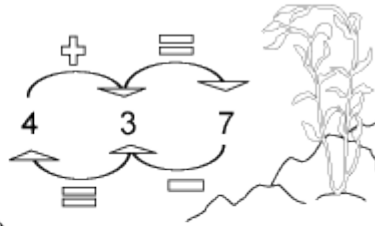
1.   7 - 5 = _____
2.   13 - 7 = _____
3.   8 - 6 = _____
4.   6 - 4 = _____
5.   3 - 3 = _____
6.   8 - 3 = _____
7.   6 - 5 = _____
8.   9 - 8 = _____
9.   9 - 2 = _____
10.   15 - 7 = _____
11.   11 - 8 = _____
12.   4 - 2 = _____
13.   4 - 4 = _____
14.   12 - 3 = _____
15.   9 - 6 = _____
16.   6 - 1 = _____
17.   3 - 1 = _____
18.   10 - 6 = _____
19.   4 - 2 = _____
20.   7 - 4 = _____
21.   6 - 0 = _____
22.   3 - 0 = _____
23.   5 - 3 = _____
24.   11 - 5 = _____
25.   10 - 7 = _____
26.   5 - 2 = _____
27.   8 - 5 = _____
28.   17 - 8 = _____
29.   4 - 3 = _____
30.   6 - 3 = _____
31.   18 - 9 = _____
32.   9 - 4 = _____

16

BIG NUMBERS

PRACTICE - A

ME GET IT...YOU CROSS OUT 6 NUMBERS FROM 32...LEAVE 26 LEFT.

HELPFUL EXAMPLE

32 - 6 = 26

~~32~~ ~~31~~ ~~30~~ ~~29~~ ~~28~~ ~~27~~ [26]
 1   2   3   4   5   6

1. 68 - 4 = _____

   68 67 66 65 64
    1 2 3 4

2. 21 - 3 = _____

   21 20 19 18
    1 2 3

3. 58 - 4 = _____

   58 57 56 55 54

4. 44 - 7 = _____

   44 43 42 41 40 39 38 37

5. 37 - 0 = _____

6. 66 - 5 = _____

7. 36 - 1 = _____

8. 40 - 3 = _____

9. 80 - 5 = _____

10. 99 - 4 = _____

11. 26 - 6 = _____

12. 48 - 5 = _____

13. 53 - 2 = _____

14. 79 - 3 = _____

15. 28 - 6 = _____

16. 92 - 4 = _____

22

NAME: _____

ANSWER THE PROBLEMS BELOW AND CONNECT THE DOTS IN THE ORDER YOU CREATED.
I STARTED THE PATTERN FOR YOU...NOW YOU DO THE REST.
NOTE: PATTERNS ARE **NOT** CONNECTED TOGETHER.

PATTERN #1	PATTERN #2	PATTERN #3	PATTERN #4
19 - 8 = 11	15 - 8 = ___	46 - 10 = ___	16 - 4 = ___
28 - 5 = 23	48 - 5 = ___	16 - 6 = ___	34 - 8 = ___
47 - 3 = ___	20 - 1 = ___	16 - 7 = ___	13 - 7 = ___
8 - 4 = ___	44 - 7 = ___	33 - 3 = ___	18 - 5 = ___
37 - 9 = ___	25 - 8 = ___	7 - 5 = ___	33 - 0 = ___
18 - 2 = ___	19 - 5 = ___	39 - 8 = ___	28 - 4 = ___
41 - 7 = ___	10 - 7 = ___	48 - 9 = ___	47 - 5 = ___
27 - 0 = ___	31 - 9 = ___	7 - 2 = ___	2 - 1 = ___
25 - 10 = ___	46 - 6 = ___	22 - 4 = ___	37 - 8 = ___
43 - 8 = ___	13 - 5 = ___	28 - 8 = ___	35 - 10 = ___
22 - 1 = ___	42 - 4 = ___	47 - 6 = ___	36 - 4 = ___
LINE ENDS	LINE ENDS	LINE ENDS	LINE ENDS

25
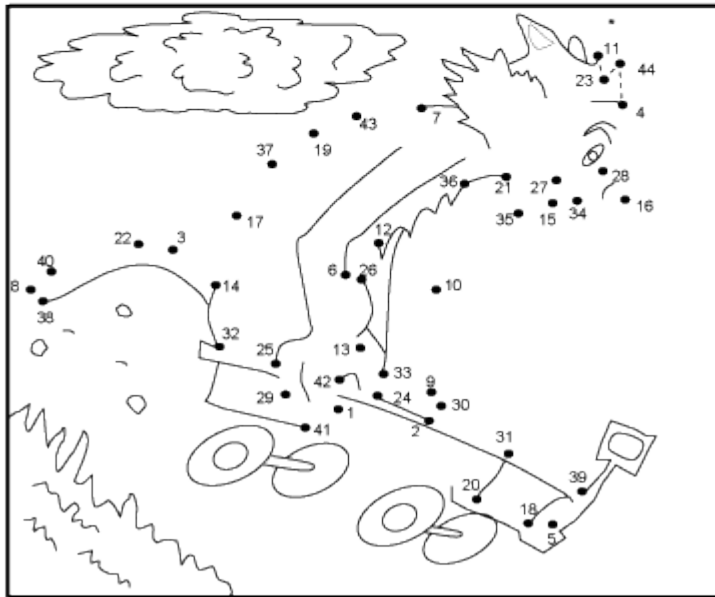
REVIEW - CONTINUED

FILL IN THE BLANKS...WATCH OUT THERE'S ADDITION AND SUBTRACTION.

1. $3 + 4 = \boxed{7}$ 2. $3 + \boxed{4} = 7$ 3. $\boxed{} + 4 = 7$

4. $10 - 4 = \boxed{}$ 5. $6 + \boxed{} = 8$ 6. $5 + 4 = \boxed{}$

7. $\boxed{} + 1 = 6$ 8. $7 - 2 = \boxed{}$ 9. $12 - \boxed{} = 9$

10. $2 + \boxed{} = 4$ 11. $\boxed{} - 4 = 5$ 12. $\boxed{} + 6 = 10$

13. $8 + 6 = \boxed{}$ 14. $4 - 3 = \boxed{}$ 15. $9 - \boxed{} = 7$

16. $7 - 4 = \boxed{}$ 17. $5 + \boxed{} = 6$ 18. $7 + 7 = \boxed{}$

19. $\boxed{} + 8 = 13$ 20. $\boxed{} - 0 = 2$ 21. $\boxed{} + 2 = 6$

22. $13 - \boxed{} = 7$ 23. $4 + 4 = \boxed{}$ 24. $11 - 3 = \boxed{}$

25. $5 + 5 = \boxed{}$ 26. $1 - \boxed{} = 0$ 27. $3 + \boxed{} = 11$

28. $8 + \boxed{} = 9$ 29. $\boxed{} + 5 = 12$ 30. $\boxed{} - 2 = 8$

31. $15 - 7 = \boxed{}$ 32. $6 + \boxed{} = 13$ 33. $9 + 9 = \boxed{}$

34. $\boxed{} + 2 = 13$ 35. $\boxed{} - 7 = 7$ 36. $\boxed{} + 0 = 4$

37. $8 + 6 = \boxed{}$ 38. $14 - 6 = \boxed{}$ 39. $8 + \boxed{} = 14$

40. $4 - \boxed{} = 3$ 41. $15 - \boxed{} = 5$ 42. $\boxed{} + 4 = 10$

27

BIGGER NUMBERS

PRACTICE - D

1.   74 - 22 = _____   2.   94 - 53 = _____

3.   45 - 14 = _____   4.   48 - 41 = _____

5.   97 - 64 = _____   6.   88 - 37 = _____

7.   39 - 18 = _____   8.   74 - 40 = _____

9.   66 - 26 = _____   10.   56 - 15 = _____

11.   57 - 31 = _____   12.   95 - 71 = _____

13.   99 - 57 = _____   14.   87 - 22 = _____

15.   28 - 24 = _____   16.   75 - 35 = _____

BORROWING

WE'RE MOVING RIGHT ALONG. I FEEL WE'RE READY FOR ANOTHER PIECE OF SUBTRACTION.

COOL. YOU KNOW SUBTRACTION ISN'T THAT HARD WHEN YOU RELATE IT TO ADDING.

GOOD POINT. WELL, THE NEXT THING IS CALLED BORROWING. SOME MATH PEOPLE CALL IT REGROUPING, BECAUSE IT'S JUST LIKE ADDITION.

BORROWING HUH? SO INSTEAD OF CARRYING AMOUNTS OVER LIKE IN ADDITION, WE ARE GOING TO BORROW AMOUNTS TO SUBTRACT.

EXACTLY...CHECK THIS PROBLEM OUT

SOMETHING DOESN'T LOOK RIGHT HERE.

94 - 27 =

YOU'RE RIGHT. IF YOU REWRITE THE PROBLEM LIKE THIS...YOU SEE THAT THE 4 ON TOP IS TOO SMALL AND YOU CAN NOT SUBTRACT THE 7.

I'M GUESSING WE ARE GOING TO HAVE TO BORROW FROM THE 9.

$$\begin{array}{r} 9\ 4 \\ -\ 2\ 7 \end{array}$$

EXCUSE ME MR. 9 MAY I BORROW A PIECE OF YOU? I PROMISE TO PAY YOU BACK.

40

PRACTICE - B

I THINK YOU SHOULD DO THESE WHILE I TAKE A SHORT BREAK.

DON'T EVEN THINK ABOUT BORROWING FROM ME!

HELPFUL EXAMPLE

$52 - 7 = \underline{45}$
ANSWER

+10

$\overset{4}{5}\,12$
$-\quad\quad 7$

4	5

CHANGE THE 5 TO A 4 AND PUT THE 1 NEXT TO THE 2 TO MAKE 12.

1. $42 - 8 = \underline{\quad\quad}$

+10

$\overset{3}{4}$	12
-	8

$2 + 10 = 12$

ANSWER

2. $74 - 6 = \underline{\quad\quad}$

+10

$\overset{6}{7}$	14
-	6

$4 + 10 = 14$

ANSWER

3. $93 - 57 = \underline{\quad\quad}$

9	3
- 5	7

ANSWER

4. $31 - 14 = \underline{\quad\quad}$

3	1
- 1	4

ANSWER

HOW RELAXING...ALL YOU'RE DOING IS TAKING ONE FROM THE NUMBER ON THE LEFT, AND PUTTING IT NEXT TO THE NUMBER ON THE RIGHT.

$\overset{3}{4}\,\overset{1}{2}$
$-\quad 6$

PRACTICE - D

HELPFUL EXAMPLE

42 - 37 = ____5____

ANSWER

CHANGE THE 4 TO A 3, AND PUT THE 1 NEXT TO THE 2 TO MAKE 12.

3̸4̸ 12

- 3 7

| 0 | 5 |

ANSWER: 5

YOU DO NOT HAVE TO WRITE THE 0 HERE.

1. 65 - 59 = _____   2. 77 - 38 = _____

3. 46 - 18 = _____   4. 52 - 26 = _____

5. 91 - 54 = _____   6. 44 - 38 = _____

7. 72 - 38 = _____   8. 70 - 25 = _____

9. 36 - 29 = _____   10. 63 - 44 = _____

11. 60 - 31 = _____   12. 81 - 37 = _____

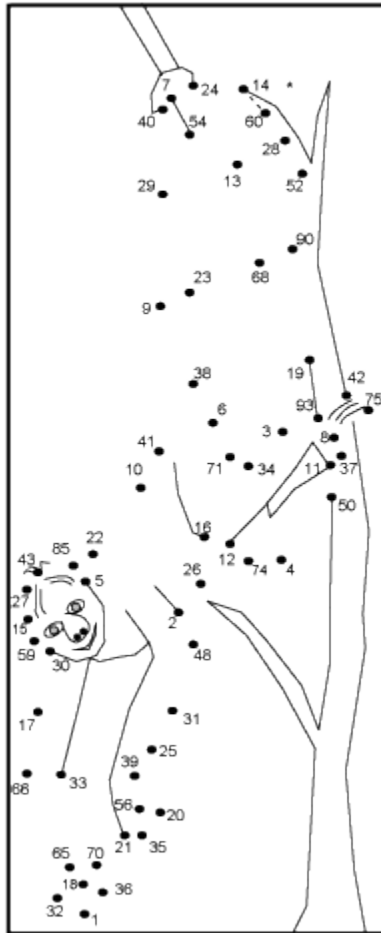13. 55 - 27 = _____   14. 94 - 56 = _____

46

DIRECTIONS:

NAME: _____

ANSWER THE PROBLEMS BELOW AND CONNECT THE DOTS IN THE ORDER YOU CREATED.
I STARTED THE PATTERN FOR YOU...NOW YOU DO THE REST.
NOTE: THE PATTERNS ARE **NOT** CONNECTED TOGETHER.

PATTERN #1

20	-	6	= 14
72	-	12	= 60
50	-	22	= ___
88	-	36	= ___
92	-	2	= ___
71	-	58	= ___
53	-	29	= ___
16	-	9	= ___
52	-	12	= ___
33	-	4	= ___
84	-	75	= ___
61	-	20	= ___
27	-	17	= ___
60	-	38	= ___
11	-	6	= ___
92	-	7	= ___
66	-	23	= ___
83	-	56	= ___
27	-	12	= ___
86	-	27	= ___
50	-	20	= ___
61	-	44	= ___
77	-	11	= ___
40	-	8	= ___
22	-	21	= ___
74	-	38	= ___
78	-	8	= ___
75	-	57	= ___
73	-	8	= ___
44	-	11	= ___

LINE ENDS

PATTERN #2

95	-	76	= ___
80	-	12	= ___
65	-	11	= ___
72	-	49	= ___
81	-	43	= ___
12	-	6	= ___
83	-	12	= ___
42	-	8	= ___
70	-	67	= ___
98	-	5	= ___
50	-	8	= ___
76	-	1	= ___
63	-	55	= ___
44	-	7	= ___
36	-	25	= ___
54	-	4	= ___
11	-	7	= ___
85	-	11	= ___
68	-	56	= ___
26	-	10	= ___
83	-	57	= ___
36	-	34	= ___
77	-	29	= ___
34	-	3	= ___
63	-	38	= ___
44	-	5	= ___
79	-	23	= ___
50	-	30	= ___
84	-	49	= ___
25	-	4	= ___

LINE ENDS

48

PRACTICE TEST

YOU'VE COMPLETED THIS BOOK, BUT BEFORE YOU GO, TAKE THIS PRACTICE TEST. THEN TAKE THE REAL TEST ON THE NEXT PAGE.

YOU'RE ALMOST THERE...DON'T GIVE UP.

HAVE SOMEONE CHECK YOUR ANSWERS TO SEE HOW YOU DID.

1.   6 - 4 = _____   2.   7 - 2 = _____

3.   8 - 3 = _____   4.   4 - 0 = _____

5.   11 - 5 = _____   6.   16 - 9 = _____

7.   9 - 3 - 2 = ___   8.   13 - 4 - 5 = ___

9.   12 - 2 - 6 = ___   10.   7 - 2 - 1 = ___

11.   8 - 0 - 4 = ___   12.   14 - 6 - 4 = ___

13.   56 - 7 = _____   14.   43 - 5 = _____

15.   78 - 6 = _____   16.   63 - 4 = _____

17.   75 - 32 = _____   18.   86 - 54 = _____

19.   6 1
    - 3 8
    _____

20.   8 4
    - 5 6
    _____

21.   7 0
    - 4 9
    _____

YOUR SCORE: _____ OUT OF **21**   HOW YOU DID: 18-21 = ✍ / 15-17 = ☺ / 14 OR LESS = ?

EXTRA PRACTICE - A   THE BASICS

HERE ARE A FEW EXTRA PRACTICE PAGES.

SEE YOU IN THE NEXT BOOK.

1.   11 - 4 = _____   2.   14 - 7 = _____
3.   7 - 2 = _____   4.   6 - 5 = _____
5.   9 - 0 = _____   6.   12 - 4 = _____
7.   13 - 8 = _____   8.   7 - 7 = _____
9.   10 - 5 = _____   10.   16 - 9 = _____
11.   4 - 3 = _____   12.   8 - 6 = _____
13.   15 - 8 = _____   14.   17 - 7 = _____

EXTRA PRACTICE - B   3 NUMBERS

1.   9 - 0 - 4 = ___   2. 13 - 5 - 5 = ___
3. 12 - 5 - 2 = ___   4.   6 - 3 - 1 = ___
5.   7 - 1 - 4 = ___   6. 10 - 7 - 2 = ___
7. 15 - 6 - 4 = ___   8.   8 - 2 - 4 = ___
9.   5 - 1 - 1 = ___   10. 17 - 0 - 7 = ___
11. 11 - 4 - 7 = ___   12.   9 - 3 - 3 = ___
13. 8 - 3 - 0 = ___   14. 12 - 6 - 2 = ___

51