

ADDITION - LEVEL 1



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COUNTING NUMBERS (1 - 100)



BELOW ARE ALL THE
WHOLE NUMBERS
BETWEEN 1 AND 100.



IMAGINE HAVING 100
FINGERS AND TOES.

1 ODD	2 EVEN	3 ODD	4 EVEN	5 ODD	6 EVEN	7 ODD	8 EVEN	9 ODD	10 EVEN
11 ODD	12 EVEN	13 ODD	14 EVEN	15 ODD	16 EVEN	17 ODD	18 EVEN	19 ODD	20 EVEN
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

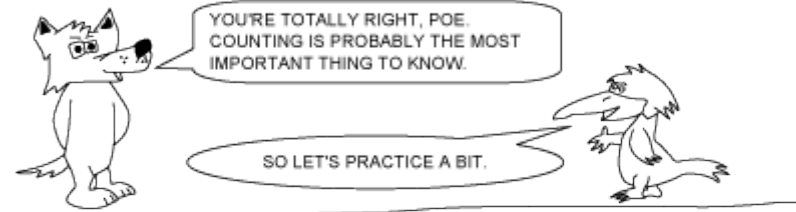
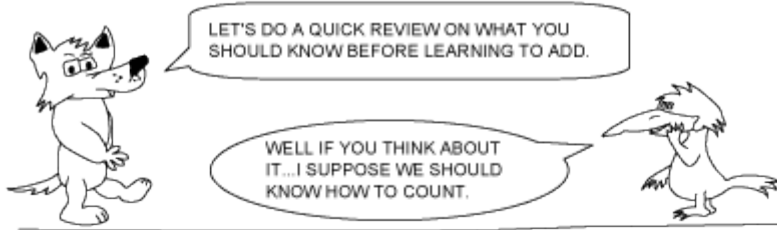


THE NUMBERS ENDING IN 1, 3, 5, 7, AND 9
ARE CALLED ODD NUMBERS.
THE ONES ENDING IN 2, 4, 6, 8, AND 0 ARE
CALLED EVEN NUMBERS.

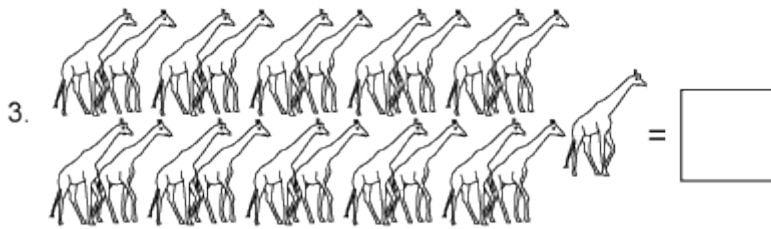


I SEE A PATTERN.

BASIC REVIEW



HOW MANY DO YOU SEE?

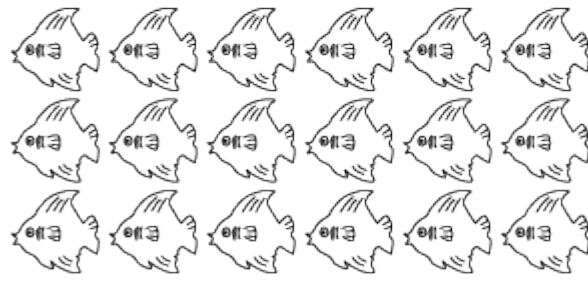


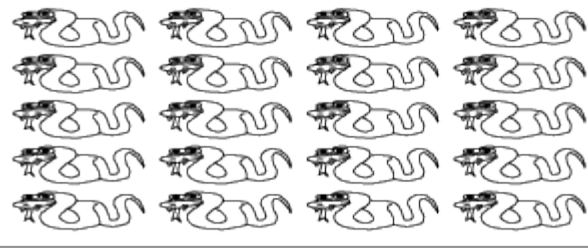
REVIEW - CONTINUED



HOW MANY DO YOU SEE?

1.  =

2.  =

3.  =

INTRODUCTION TO ADDITION (+)



ADDITION IS A SHORTCUT TO COUNTING. IT'S SHOWN BY USING A PLUS SIGN (+).

YOU MEAN LIKE...
1, 2, 3, 4, 5, 6, 7, 8?



YES, BUT ADDITION TAKES AMOUNTS AND PUTS THEM TOGETHER. FOR EXAMPLE, IF YOU TAKE 3 AND ADD 2 TO IT, THE ANSWER WILL BE 5.

I GET IT. YOU HAD 3, AND IF I COUNT 2 MORE...4, 5. I GET 5.



VERY GOOD, POE. WHEN I FIRST LEARNED ADDITION I LIKED TO USE LINES OR PICTURES TO COUNT. FOR EXAMPLE, IF I ADDED 4 AND 2 TOGETHER.

THAT'S SO EASY!

$$\begin{array}{cccc} 4 & + & 2 & = & 6 \\ \text{||||} & + & \text{||} & & \\ \text{1 2 3 4} & & \text{5 6} & & \end{array}$$



PRACTICE - A



ON THIS PROBLEM, I AM TAKING 5 AND ADDING 4. DO YOU SEE HOW I MADE THE LINES TO HELP ME COUNT?

$$\begin{array}{cccccc}
 & & & 5 & + & 4 & & = & 9 \\
 | & | & | & | & | & | & | & & \\
 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9
 \end{array}$$

NOW YOU TRY.

IN CASE YOU DIDN'T KNOW, THE = SIGN MEANS EQUAL OR THE ANSWER.



1. $2 + 5 = \underline{\quad}$
 $| | + | | | | |$

2. $3 + 1 = \underline{\quad}$
 $| | | + |$

3. $4 + 5 = \underline{\quad}$
 $| | | | + | | | | |$

4. $6 + 2 = \underline{\quad}$
 $| | | | | | + | |$



SO ALL YOU DO IS DRAW THE LINES AND COUNT.

YOU CAN DO IT.



5. $2 + 4 = \underline{\quad}$
 $| | + | | | |$

6. $1 + 2 = \underline{\quad}$
 $| + | |$

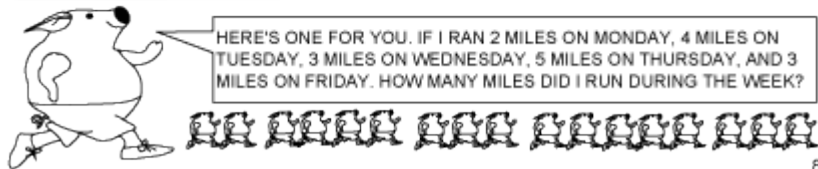
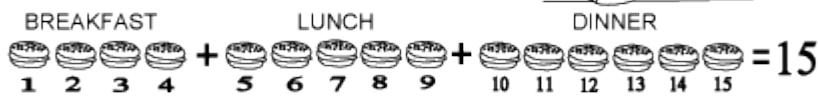
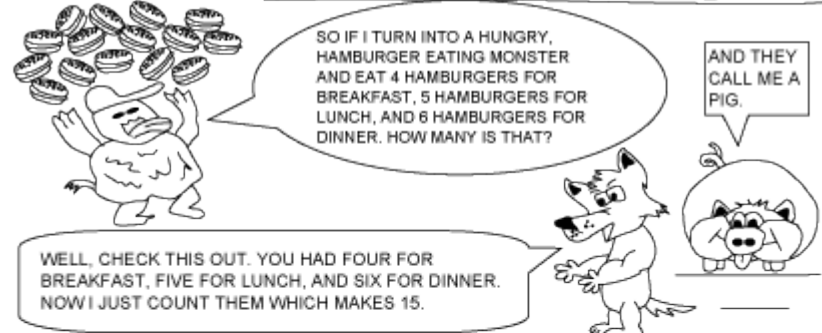
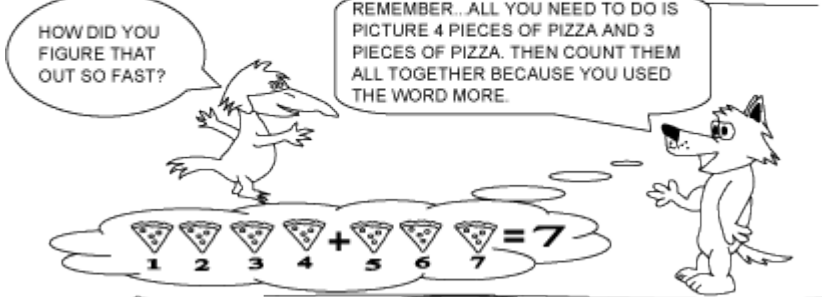
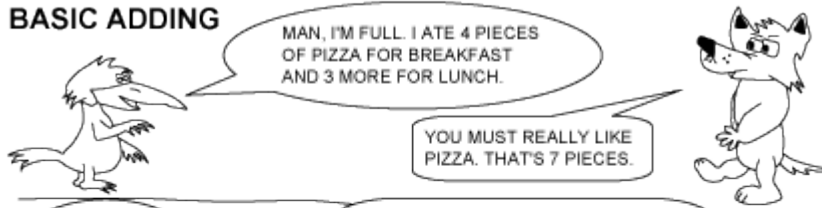
7. $5 + 3 = \underline{\quad}$

8. $4 + 3 = \underline{\quad}$

9. $2 + 6 = \underline{\quad}$

10. $3 + 7 = \underline{\quad}$

BASIC ADDING



PRACTICE - A



WHILE POE IS WORKING OFF THOSE BURGERS, GIVE THESE A TRY.

HELPFUL EXAMPLE

$$3 + 5 + 2 = 10$$
$$= 10$$

JUST COUNT THE BUTTERFLIES.

1. $1 + 2 + 5 = \underline{\quad}$
2. $3 + 2 + 4 = \underline{\quad}$
3. $3 + 4 + 5 = \underline{\quad}$
4. $4 + 5 + 2 = \underline{\quad}$
5. $2 + 3 + 1 = \underline{\quad}$
6. $2 + 3 + 1 = \underline{\quad}$
7. $5 + 5 + 2 = \underline{\quad}$
8. $5 + 4 + 4 = \underline{\quad}$
9. $3 + 2 + 3 = \underline{\quad}$
10. $4 + 7 + 1 = \underline{\quad}$
11. $2 + 1 + 3 = \underline{\quad}$
12. $2 + 4 + 5 = \underline{\quad}$
13. $4 + 1 + 1 = \underline{\quad}$
14. $4 + 1 + 2 = \underline{\quad}$
15. $2 + 2 + 4 = \underline{\quad}$
16. $1 + 4 + 3 = \underline{\quad}$

PRACTICE - B



STILL PRACTICING

HOW ARE YOU DOING? HERE ARE A COUPLE MORE PAGES TO PRACTICE ON.



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

BIG NUMBERS



HEY MAX, I'VE BEEN PRACTICING MY ADDITION FACTS, AND I THINK I GOT IT.

GOOD FOR YOU, POE. LET'S TRY DOING BIGGER NUMBERS NOW.



WHEN I WORK ON BIGGER NUMBERS I TRY NOT TO THINK ABOUT HOW BIG THE NUMBERS ARE, BUT JUST TRY TO REMEMBER MY BASIC ADDITION.



CHECK THIS PROBLEM OUT. NOW DON'T PANIC ABOUT THE 36. JUST REMEMBER WHEN YOU'RE ADDING ALL YOU NEED TO DO IS COUNT 7 MORE AFTER 36.

$$36 + 7 = 43$$

36	37	38	39	40	41	42	43
1	2	3	4	5	6	7	

I GET IT. IF I HAVE 36 ALL I DO IS COUNT 7 MORE, WHICH WOULD BE 37, 38, 39, 40, 41, 42, 43. SO THE ANSWER IS 43.



PERFECT, SEE HOW ADDING BIGGER NUMBERS IS THE SAME AS ADDING SMALLER ONES.

ADDITION IS SO RELAXING.



MORE BIG NUMBERS



I REMEMBER. I CAN REWRITE THE PROBLEM AND PUT THE BIGGER NUMBER FIRST.

$$\begin{array}{r} 6 + 62 = 68 \\ 62 + 6 = 68 \end{array}$$

62	63	64	65	66	67	68
1	2	3	4	5	6	

WAY TO GO, SEE BY SWITCHING THE ORDER YOU CAN MAKE THE PROBLEM EASIER.

WHICH MEANS $6 + 62 = 62 + 6$, AND THE ANSWER IS 68.

GIVE THESE A TRY.

$7 + 51 = \underline{\quad}$	$4 + 42 = \underline{\quad}$	
$51 + 7 = \underline{\quad}$	$42 + 4 = \underline{\quad}$	
$9 + 73 = \underline{\quad}$	$6 + 38 = \underline{\quad}$	
$73 + 9 = \underline{\quad}$	$38 + 6 = \underline{\quad}$	

MATH ART



HEY POE, SINCE YOU GUYS HAVE BEEN WORKING SO HARD MAYBE WE SHOULD TAKE A BREAK AND DO SOME MATH ART.



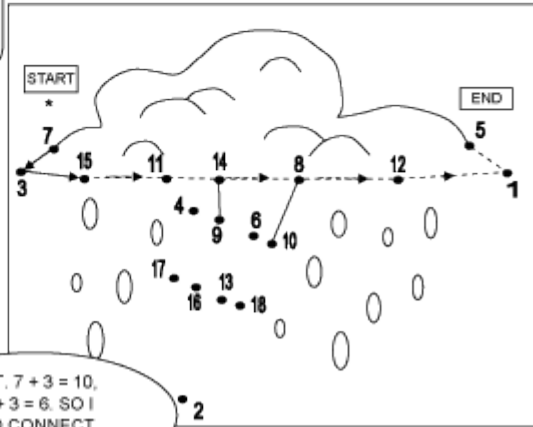
MATH AND ART COMBINED. I LOVE ART. PICASSO MOVE OVER.



TAKE A LOOK AT THE EXAMPLE BELOW.

PATTERN #1			PATTERN #2		
3	+	4 = 7	7	+	3 =
2	+	1 = 3	3	+	3 =
13	+	2 = 15	10	+	8 =
3	+	8 = 11	8	+	5 =
8	+	6 = 14	1	+	1 =
2	+	6 = 8	11	+	6 =
3	+	9 = 12	4	+	12 =
1	+	0 = 1	3	+	1 =
2	+	3 = 5	5	+	4 =
LINE ENDS			LINE ENDS		

DO YOU SEE HOW I ANSWERED THE PROBLEMS IN PATTERN #1, AND THEN CONNECTED THE DOTS IN THE ORDER THAT THEY WERE IN? NOW YOU GIVE PATTERN #2 A TRY.



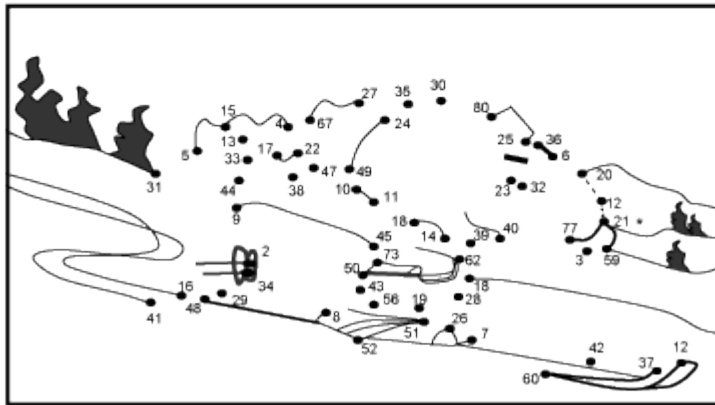
I GET IT. $7 + 3 = 10$, AND $3 + 3 = 6$. SO I WOULD CONNECT THOSE TWO DOTS.

DIRECTIONS:

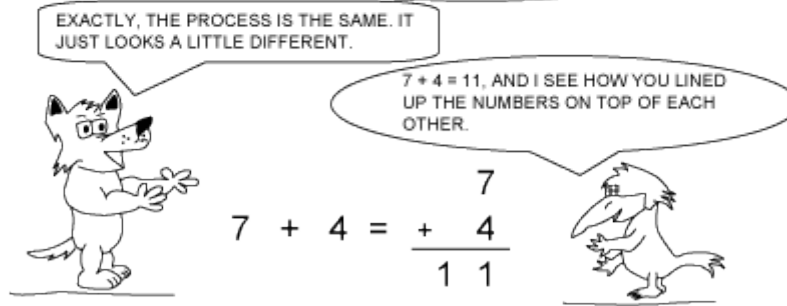
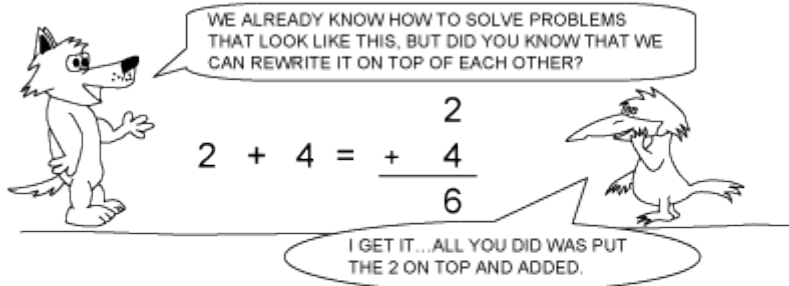
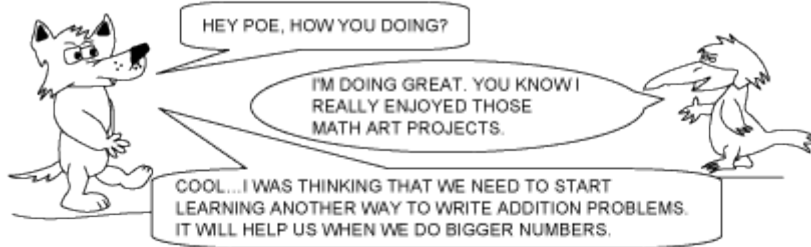
NAME: _____

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: PATTERNS ARE NOT CONNECTED TOGETHER.

PATTERN #1	PATTERN #2	PATTERN #3	PATTERN #4
17 + 4 = <u>21</u>	3 + 2 = _____	2 + 10 = _____	11 + 3 = _____
5 + 7 = <u>12</u>	10 + 5 = _____	6 + 31 = _____	38 + 7 = _____
14 + 6 = _____	6 + 7 = _____	4 + 38 = _____	6 + 67 = _____
4 + 2 = _____	23 + 10 = _____	5 + 2 = _____	1 + 1 = _____
9 + 23 = _____	9 + 8 = _____	7 + 19 = _____	9 + 25 = _____
3 + 20 = _____	1 + 3 = _____	45 + 6 = _____	7 + 43 = _____
28 + 8 = _____	63 + 4 = _____	15 + 4 = _____	37 + 6 = _____
24 + 1 = _____	9 + 13 = _____	9 + 19 = _____	9 + 47 = _____
13 + 5 = _____	6 + 41 = _____	12 + 6 = _____	5 + 3 = _____
7 + 4 = _____	42 + 7 = _____	59 + 3 = _____	24 + 5 = _____
9 + 71 = _____	2 + 8 = _____	32 + 7 = _____	47 + 1 = _____
27 + 3 = _____	10 + 28 = _____	8 + 32 = _____	4 + 12 = _____
5 + 30 = _____	2 + 42 = _____	7 + 70 = _____	7 + 34 = _____
24 + 0 = _____	25 + 6 = _____	3 + 0 = _____	49 + 3 = _____
17 + 10 = _____	5 + 4 = _____	49 + 10 = _____	8 + 52 = _____
LINE ENDS	LINE ENDS	LINE ENDS	LINE ENDS



ANOTHER WAY



1. $5 + 8 = + \begin{array}{r} 5 \\ 8 \\ \hline \square \square \end{array}$

2. $9 + 3 = + \begin{array}{r} \square \\ \square \\ \hline \square \square \end{array}$

BIGGER NUMBERS-CONTINUED

WELL, MAX GOT US STARTED, SO LETS DO ONE ON OUR OWN.

$$24 + 34 =$$

I REWRITE THE NUMBERS SO THEY LOOK LIKE THIS.

$$\begin{array}{r} 24 \\ + 34 \\ \hline \end{array}$$

AND THEN I START WITH THE NUMBERS ON THE RIGHT. I ADD 4 PLUS 4 WHICH EQUALS 8.

$$\begin{array}{r} 24 \\ + 34 \\ \hline \boxed{8} \end{array}$$

AND THEN I ADD THE NEXT SET OF NUMBERS. 2 PLUS 3 EQUALS ? ___?

$$\begin{array}{r} 24 \\ + 34 \\ \hline \boxed{?} 8 \end{array}$$

SO DID YOU GET 58? YOU KNOW THIS ISN'T AS HARD AS IT LOOKS. IT'S YOUR TURN NOW.

1. $\begin{array}{r} 17 \\ + 42 \\ \hline \boxed{} \end{array}$ 2. $\begin{array}{r} 31 \\ + 64 \\ \hline \boxed{} \end{array}$ 3. $\begin{array}{r} 53 \\ + 25 \\ \hline \boxed{} \end{array}$

BY THE WAY... DIGITS ARE THE NUMBERS INSIDE THE ACTUAL NUMBER.

SO 347 IS THE NUMBER, BUT 3, 4, AND 7 ARE THE DIGITS.

IF YOU SEE ?, IT MEANS YOU NEED TO FILL IN THE ANSWER.

PRACTICE - C



1. $26 + 52 = \underline{\quad}$ 2. $36 + 41 = \underline{\quad}$

3. $34 + 63 = \underline{\quad}$ 4. $25 + 32 = \underline{\quad}$

5. $41 + 35 = \underline{\quad}$ 6. $73 + 22 = \underline{\quad}$

7. $12 + 53 = \underline{\quad}$ 8. $20 + 66 = \underline{\quad}$

9. $56 + 23 = \underline{\quad}$ 10. $31 + 52 = \underline{\quad}$

11. $40 + 28 = \underline{\quad}$ 12. $17 + 82 = \underline{\quad}$

DIRECTIONS:

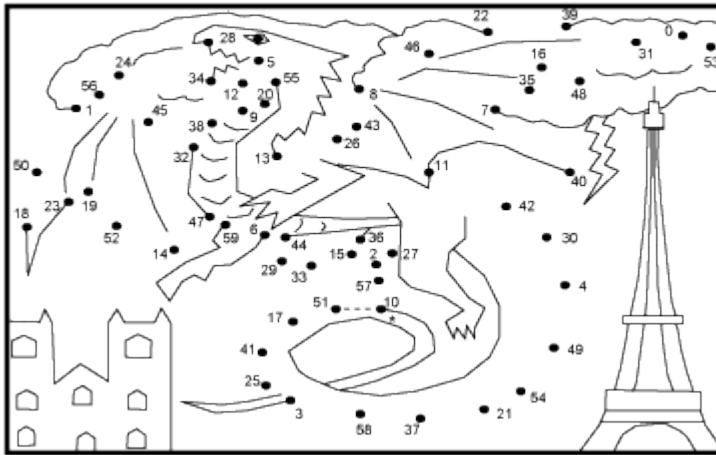
NAME: _____

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: PATTERNS ARE NOT CONNECTED TOGETHER.

PATTERN #1	PATTERN #2	PATTERN #3	PATTERN #4
1 + 9 = <u>10</u>	16 + 12 = _____	0 + 13 = _____	5 + 18 = _____
48 + 3 = <u>51</u>	3 + 2 = _____	12 + 14 = _____	12 + 7 = _____
5 + 12 = _____	11 + 23 = _____	22 + 21 = _____	32 + 20 = _____
37 + 4 = _____	2 + 10 = _____	7 + 1 = _____	8 + 6 = _____
12 + 13 = _____	23 + 32 = _____	31 + 15 = _____	0 + 47 = _____
1 + 2 = _____	14 + 6 = _____	13 + 9 = _____	33 + 26 = _____
31 + 27 = _____	5 + 4 = _____	25 + 14 = _____	4 + 2 = _____
24 + 13 = _____	14 + 24 = _____	0 + 0 = _____	31 + 13 = _____
12 + 9 = _____	9 + 23 = _____	22 + 31 = _____	12 + 17 = _____
22 + 32 = _____	31 + 14 = _____	11 + 20 = _____	21 + 12 = _____
45 + 4 = _____	11 + 13 = _____	5 + 11 = _____	10 + 5 = _____
2 + 2 = _____	32 + 24 = _____	32 + 16 = _____	22 + 35 = _____
23 + 7 = _____	1 + 0 = _____	12 + 23 = _____	11 + 16 = _____
21 + 21 = _____	43 + 7 = _____	5 + 2 = _____	1 + 1 = _____
3 + 8 = _____	10 + 8 = _____	20 + 20 = _____	23 + 13 = _____
LINE ENDS	LINE ENDS	LINE ENDS	LINE ENDS



PRACTICE - B



HELPFUL EXAMPLE

START

$$\begin{array}{r}
 25 \\
 + 47 \\
 \hline
 \end{array}
 \Rightarrow
 \begin{array}{r}
 25 \\
 + 47 \\
 \hline
 12
 \end{array}
 \Rightarrow
 \begin{array}{r}
 \overset{1}{2}5 \\
 + 47 \\
 \hline
 2
 \end{array}
 \Rightarrow
 \begin{array}{r}
 1 \\
 25 \\
 + 47 \\
 \hline
 72
 \end{array}$$

ANSWER

1.
$$\begin{array}{r} 26 \\ + 15 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 57 \\ + 39 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 28 \\ + 58 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 46 \\ + 48 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 59 \\ + 16 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 19 \\ + 23 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 23 \\ + 57 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 75 \\ + 18 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 44 \\ + 37 \\ \hline \end{array}$$

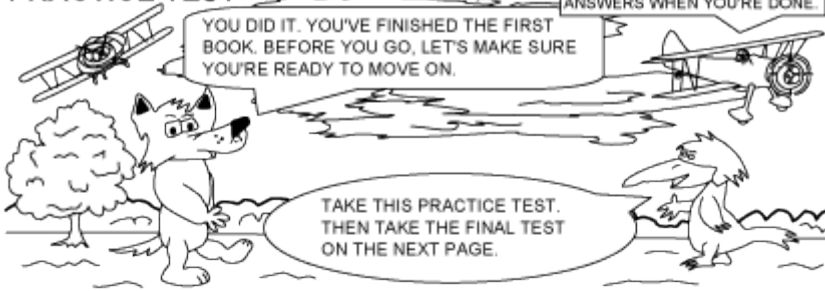
10.
$$\begin{array}{r} 39 \\ + 59 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 25 \\ + 35 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 47 \\ + 47 \\ \hline \end{array}$$

PRACTICE TEST

HAVE SOMEONE CHECK YOUR ANSWERS WHEN YOU'RE DONE.



1. $5 + 4 = \underline{\quad}$ 2. $8 + 2 = \underline{\quad}$

3. $7 + 6 = \underline{\quad}$ 4. $3 + 9 = \underline{\quad}$

5. $0 + 9 = \underline{\quad}$ 6. $7 + 8 = \underline{\quad}$

7. $5 + 5 + 2 = \underline{\quad}$ 8. $4 + 3 + 9 = \underline{\quad}$

9. $7 + 0 + 3 = \underline{\quad}$ 10. $8 + 7 + 1 = \underline{\quad}$

11. $3 + 6 + 1 = \underline{\quad}$ 12. $2 + 4 + 6 = \underline{\quad}$

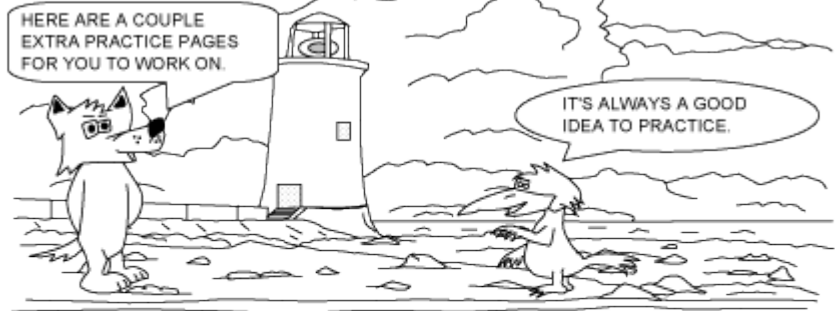
13. $63 + 6 = \underline{\quad}$ 14. $9 + 22 = \underline{\quad}$

15. $3 + 85 = \underline{\quad}$ 16. $34 + 7 = \underline{\quad}$

17. $25 + 71 = \underline{\quad}$ 18. $42 + 33 = \underline{\quad}$

19.
$$\begin{array}{r} 37 \\ + 58 \\ \hline \end{array}$$
 20.
$$\begin{array}{r} 84 \\ + 93 \\ \hline \end{array}$$
 21.
$$\begin{array}{r} 23 \\ + 67 \\ \hline \end{array}$$

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

EXTRA PRACTICE - A**THE BASICS**

- | | |
|---------------------|---------------------|
| 1. $4 + 4 =$ _____ | 2. $6 + 8 =$ _____ |
| 3. $7 + 5 =$ _____ | 4. $3 + 0 =$ _____ |
| 5. $1 + 2 =$ _____ | 6. $4 + 3 =$ _____ |
| 7. $0 + 8 =$ _____ | 8. $8 + 5 =$ _____ |
| 9. $6 + 3 =$ _____ | 10. $9 + 7 =$ _____ |
| 11. $3 + 7 =$ _____ | 12. $2 + 6 =$ _____ |
| 13. $9 + 5 =$ _____ | 14. $5 + 8 =$ _____ |

EXTRA PRACTICE - B**ADDING 3 NUMBERS**

- | | |
|-------------------------|-------------------------|
| 1. $1 + 3 + 5 =$ _____ | 2. $5 + 6 + 1 =$ _____ |
| 3. $3 + 8 + 0 =$ _____ | 4. $8 + 3 + 4 =$ _____ |
| 5. $5 + 5 + 8 =$ _____ | 6. $3 + 5 + 7 =$ _____ |
| 7. $7 + 3 + 5 =$ _____ | 8. $0 + 8 + 6 =$ _____ |
| 9. $9 + 7 + 1 =$ _____ | 10. $8 + 4 + 3 =$ _____ |
| 11. $4 + 4 + 7 =$ _____ | 12. $2 + 7 + 5 =$ _____ |
| 13. $5 + 1 + 6 =$ _____ | 14. $9 + 1 + 8 =$ _____ |



YOU EITHER LOVE IT OR HATE IT.
EITHER WAY, WE'RE HERE TO HELP.

