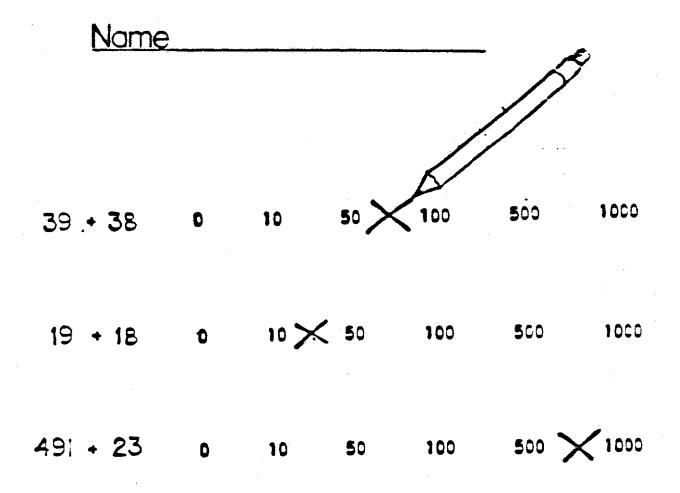


Unusual Problems



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ADDITION

19 + 29	0	10	50	100	500	1000
257 + 294	0 .	10	50	100	500	1000
59 + 49	0	10	50	100	500	1000
19 + 19 + 19	0	10	50	100	500	1000
$27\frac{2}{3} + 21\frac{2}{3}$	0	10	50	100	500	1000
$20\frac{1}{2} + 20\frac{1}{2} + 9\frac{1}{2}$	0	10	50	100	500	1000
50.9 + 49.9	0	10	50	100	500	1000
1.5 + 1.5 + 1.5 + 1.5	0	10	50	100	500	1000

SUBTRACTION

945 - 855	0	10	50	100	500	1000
751 - 249	.0	10	50	100	500	1000
105 - 8	0	10	50	100	500	1000
900 - 401	0	10	50	100	500	1000
						v
$60\frac{1}{4} - 50\frac{1}{2}$	0	10	50	100	500	1000
15= - 5=	0	10	50	100	500	1000
100 - 50.5	0	.10	50	100	500	1000
20.009 - 10.1	0	10	50	100	500	1000

MULTIPLICATION

							
	2 x 19	0	10	50	100	500	1000
	40 X 10	 0	10	50	100	500	1000
	11 x 50	0	10	50	100	500	1000
	4 x 29	0	10	50	100	500	1000
	<u>i</u> x 199	0	10	50	100	500	1000
	1/4 × 401	0	10	50	100	500	1000
	4.9 x 9.9	0	10	50	100	500	1000
٠	125 x 0.5	0.	10	50	100	500	1000
DIV	ISION			·			
	190 ÷ 10	0	1	10	50	100	
	301 ÷ 50	0	1	10	50	100	
	300 ÷ 4	0	1	10	50	100	
	101 ÷ 9	0	1	10	50	100	
	$10\frac{1}{2} \div 1\frac{1}{2}$	0	1	10	50	100	
	$1\div\frac{i}{2}$	0	1	10	50	100	
-	9.5 ÷ 0.5	0	1	10	50	100	
	100 ÷ 10.5	0	1	10	50	100	

MARIA'S GAME

	Class said:	Tom's answer:		Class said:	Maria's answer:
First clue:	4	8	First clue:	2	12
Second clue:	3	7	Second clue:	5	30
Third clue:	5	9	Third clue:	8	48
Question:	1 [Question:	3	
		. n. 15			
	BUD'S	G AME		AMY'S	GAME
	Class said:	Bud's answer:		Class said:	Amy's answer
First clue:	12	4	First clue:	3	29
Second clue:	4	1	Second clue:	6	59
Third clue:	44	11	Third clue:	8	79
Question:		8	Question:		4 9
	PAUL'S	GAME		SARA'S G	AME
	Class said:	Paul's answer:		Class said:	Tom's answer:
First clue:	3	41/2	First clue:	3	1.5
Second clue:	$1\frac{1}{2}$	3	Second clue:	9	4.5
Third clue:	1/4	13/4	Third clue:	6.8	3.4
Question:		8	Question:	2.4	

1. John is taller than Bill.

Bill is taller than Tom.

Who is tallest? John Bill Tom Can't tell

2. Dave is shorter than Jim.

Jim is shorter than Andy.

Who is tallest? Dave Jim Andy Can't tell

3. Paul is taller than John.

John is shorter than Bob.

Who is tallest? Paul John Bob Can't tell

4. Ellen is not taller than Linda.

Linda is shorter than Karen.

Who is shortest? Linda Ellen Karen Can't tell

5. Ann is taller than Barb and Carol.

Carol is shorter than Barb and Diane.

Who is tallest? Ann Barb Carol Diane Can't tell
Who is shortest? Ann Barb Carol Diane Can't tell

6. The banker is one of these men: Smith, Jones, Brown, Williams, Gates

The banker is the tallest and fattest man.

Smith is taller than Jones, but shorter than Brown.

Brown is fatter than Williams, but thinner than Smith.

Who is the banker? Smith Jones Brown Williams Gates

7. There are 5 children: Bill, Maria, Tony, Helen and Abby.

Bill is taller than Maria but not as tall as Tony.

Helen and Maria are taller than Abby.

Helen is taller than Maria but not as tall as Bill.

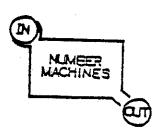
Who is tallest? Bill Maria Helen Abby Tony Can't tell
Who is shortest? Bill Maria Helen Abby Tony Can't tell

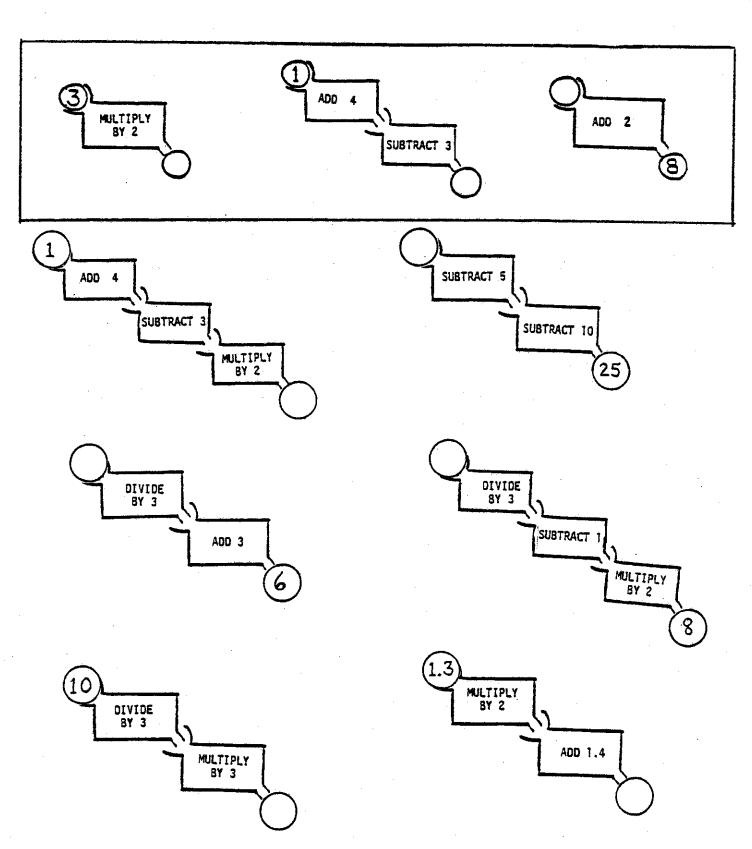
Rules

- 1. Always start at zero
- 2. Only use these numbers: 2, 3, 5, 7
- 3. Only use these operations: +, -, x, -
- 4. Always end up at 12.

Solutions

Start	at	zero,	+7,	x2,	-2								
Start	at	zero,	+5,	+3,	÷2,	х3							
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1 2 3 4 5 6 7 8 9 10 11 3 4 5 6 7 8 9 10 11

What color will the 90th square be?

black white

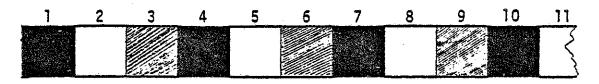
What color will the 91st square be?

black white

What color will the 92nd square be?

black white

About how many of the first 100 squares will be white?



What color will the 90th square be?

black white

gray

What color will the 91st square be?

black white

gray

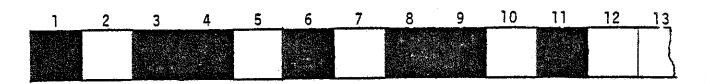
What color will the 92nd square be?

black

white

gray

About how many of the first 100 squares will be white?



What color will the 36th square be?

black white

What color will the 60th square be?

black

white

What color will the 65th square be?

black

white

3.

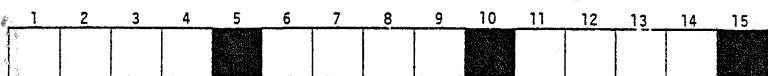
1.

Х8

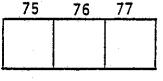
65 66 67 68 69 70 7]

What color will the 1st square be? black white gray What color will the 5th square be? black white gray What color will the 101th square be? black white gray What color will the 105th square be? black white gray

Look at this pattern, then answer the 2 questions below. Circle your answers.

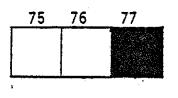


Which answer show what the 75th, 76th and 77th squares will be? d



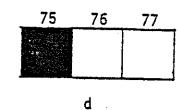
4.

a

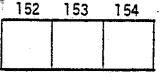


b,





Which answer shows what the 152nd, 153rd, and 154th squares will be?



152 153 154

<u> 152</u> 153 154 152 153 154

a

Ь

C

Circ	cle the let	ter for your	answers.	•		
1.	Every ches After a ne	s club member w member join	played ever	y other mem ames had to	ber just once be played.	
	How many m	embers <mark>are in</mark>	the club no	w?		•
	a) 20	b) 16	c) 12	d) 9	e) 8	
•						
2.	Jose has 3 If one-thi	00 stamps in rd of the sta	his collecti amps are from	on. 1 Canada, ho	ow many are fr	om Mexico?
	a) 100	b) 150	c) 20	00 d)	can't tell	
3.	Altogether	7 bills. dem are \$1 bi he has \$10 62 bills does	in bills.	are \$2 bill	ls.	
	a) 1	b) 2	c) 5	d) 4		
4.	One half o	rths of Tim's of the corn i ion of the fi	s <u>sweet</u> corn			
	wnat port	ion of the fi	eta is hidiic	eu III <u>sweet</u>	COTIL	
	a) $\frac{3}{2}$	b) 3	c) $\frac{1}{2}$	d)	18	
5.		ones' class: tudents wear	tennis shoes			
	18 s	tudents wear tudents wear tudents wear tudents don't	glasses. tennis shoes	and glasse	s lasses.	
		our answers i				
	How man	y students we	ar glasses <u>a</u>	<u>nd</u> tennis s	hoes?	<u>:</u>
	How man	y students ar	e there in M	lrs. Jones'	class?	