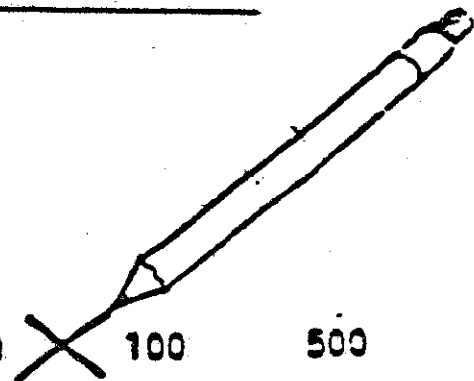




Unusual Problems

Name _____



$39 + 38$

0

10

50

~~100~~

500

1000

$19 + 18$

0

10

~~50~~

100

500

1000

$491 + 23$

0

10

50

100

500

~~1000~~

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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
$60\frac{1}{4} - 50\frac{1}{2}$	0	10	50	100	500	1000
$15\frac{2}{3} - 5\frac{1}{3}$	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

2×19	0	10	50	100	500	1000
40×10	0	10	50	100	500	1000
11×50	0	10	50	100	500	1000
4×29	0	10	50	100	500	1000
$\frac{1}{2} \times 199$	0	10	50	100	500	1000
$\frac{1}{4} \times 401$	0	10	50	100	500	1000
4.9×9.9	0	10	50	100	500	1000
125×0.5	0	10	50	100	500	1000

DIVISION

$190 \div 10$	0	1	10	50	100
$301 \div 50$	0	1	10	50	100
$300 \div 4$	0	1	10	50	100
$101 \div 9$	0	1	10	50	100
$10\frac{1}{2} \div 1\frac{1}{2}$	0	1	10	50	100
$1 \div \frac{1}{2}$	0	1	10	50	100
$9.5 \div 0.5$	0	1	10	50	100
$100 \div 10.5$	0	1	10	50	100

TOM'S GAME

	Class said:	Tom's answer:
First clue:	4	8
Second clue:	3	7
Third clue:	5	9
Question:	1	<input type="text"/>

MARY'S GAME

	Class said:	Mary's answer:
First clue:	6	3
Second clue:	16	13
Third clue:	8	5
Question:	12	<input type="text"/>

BILL'S GAME

	Class said:	Bill's answer:
First clue:	9	3
Second clue:	15	5
Third clue:	30	10
Question:	<input type="text"/>	6

ANN'S GAME

	Class said:	Ann's answer:
First clue:	36	6
Second clue:	100	10
Third clue:	81	9
Question:	<input type="text"/>	2

PETER'S GAME

	Class said:	Peter's answer:
First clue:	$1\frac{1}{2}$	3
Second clue:	$4\frac{1}{2}$	9
Third clue:	$2\frac{1}{5}$	$4\frac{2}{5}$
Question:	<input type="text"/>	$6\frac{2}{4}$

SUSAN'S GAME

	Class said:	Susan's answer:
First clue:	4.6	2.3
Second clue:	8.3	6
Third clue:	7.7	5.4
Question:	5.3	<input type="text"/>

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

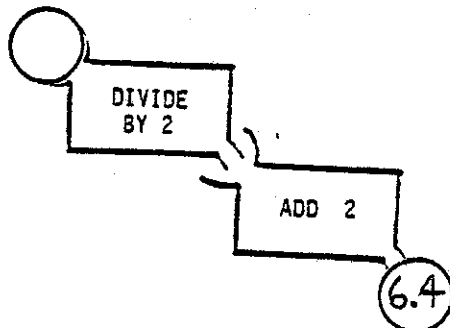
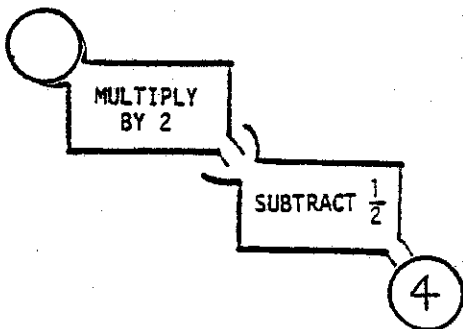
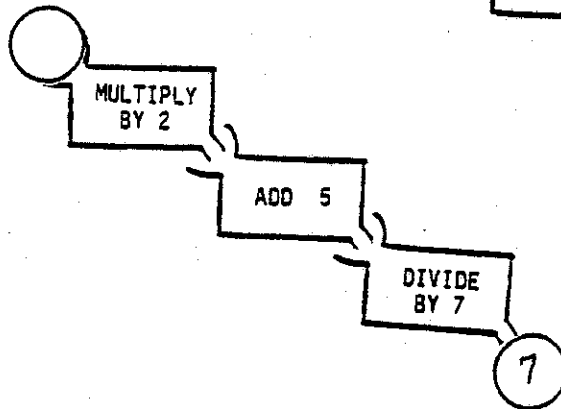
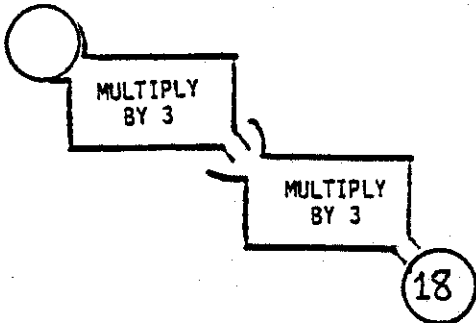
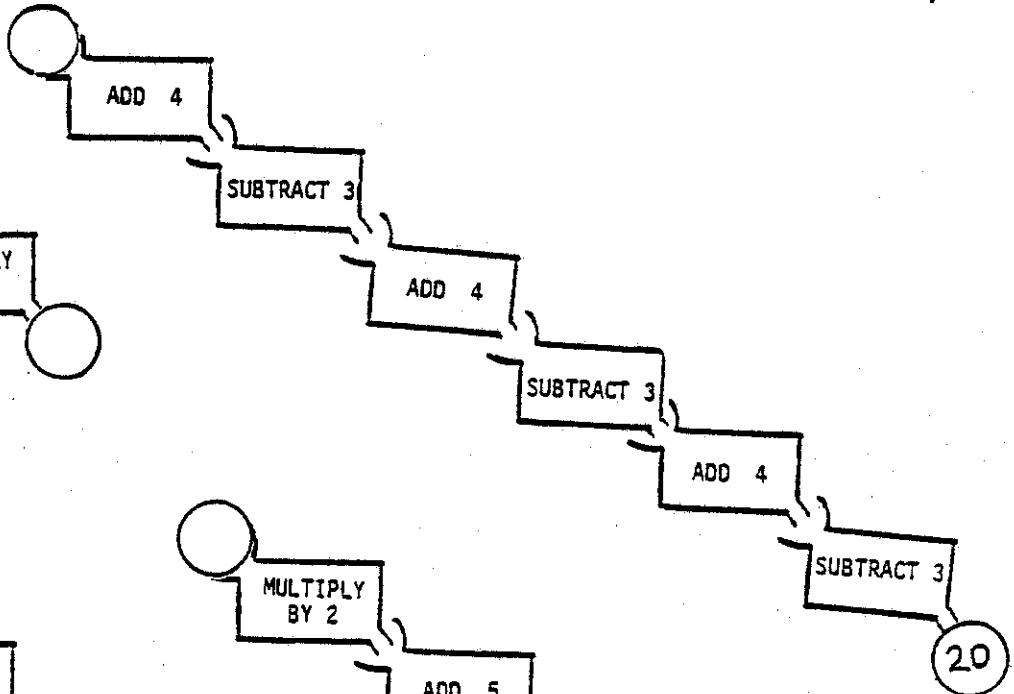
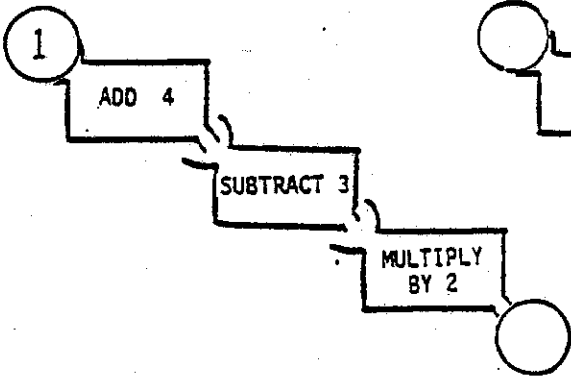
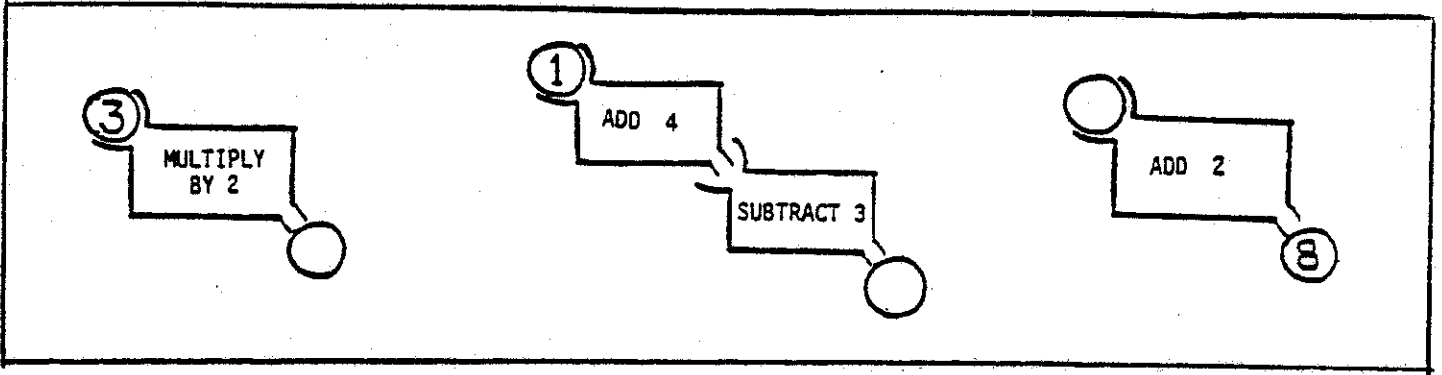
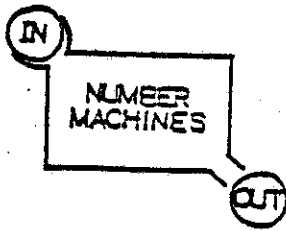
Rules

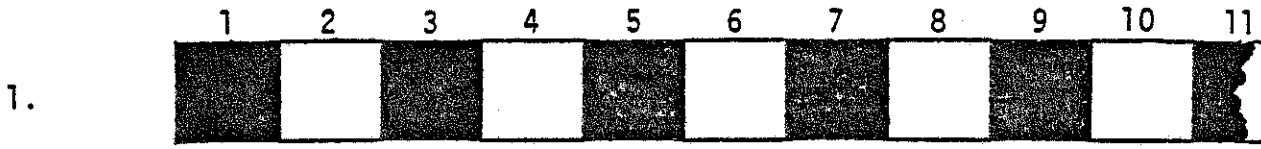
1. Always start at zero
2. Only use these numbers: 2, 3, 5, 7
3. Only use these operations: +, -, x, -
4. Always end up at 12.

Solutions

Start at zero, +7, x2, -2

Start at zero, +5, +3, $\div 2$, x3



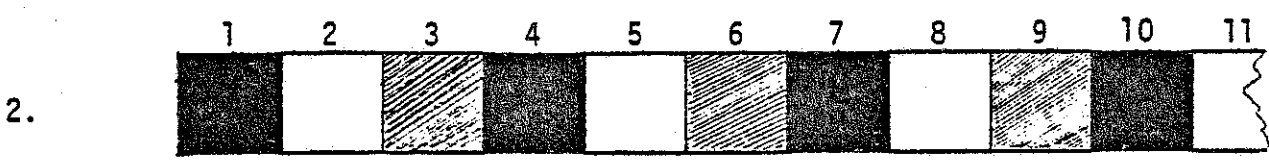


What color will the 90th square be? black white

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? _____

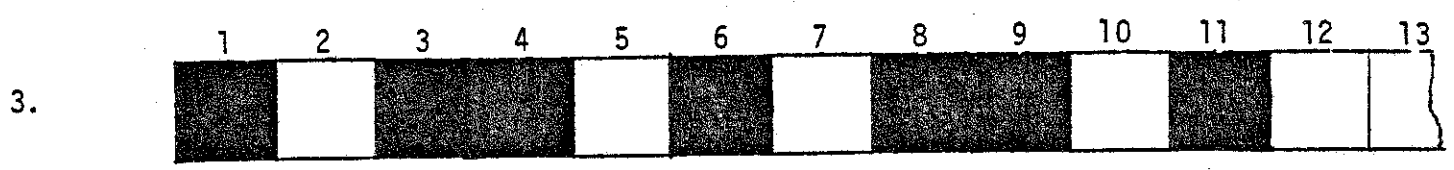


What color will the 90th square be? black white gray

What color will the 91st square be? black white gray

What color will the 92nd square be? black white gray

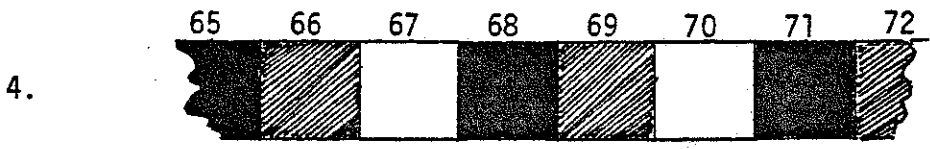
About how many of the first 100 squares will be white? _____



What color will the 36th square be? black white

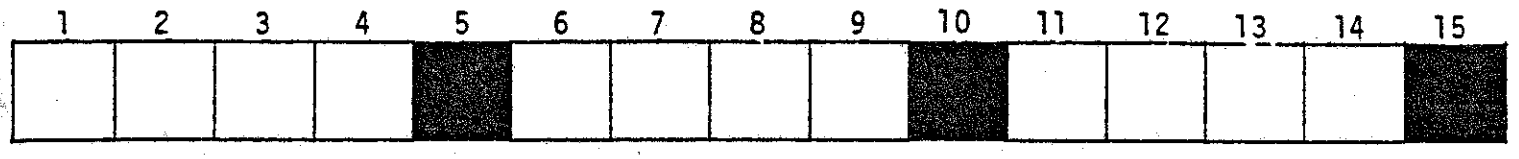
What color will the 60th square be? black white

What color will the 65th square be? black white



- What color will the 1st square be? black white gray
- What color will the 5th square be? black white gray
- What color will the 10th square be? black white gray
- What color will the 105th square be? black white gray

5. 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? a b c d

- a b c d
-

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

- a b c d
-

Circle the letter for your answers.

1. Don bought a bag of 20 new marbles.
He now has 74 marbles.
We want to know how many marbles Don had before he bought the new ones?
Mark a number sentence that cannot be used to solve this problem?
a) $20 + 75 = \square$ b) $75 = 20 + \square$ c) $\square + 20 = 75$ d) $\square = 75 - 20$

2. A jar holds $\frac{1}{2}$ as much as a pitcher.
If the jar holds 8 pints, then how much does the pitcher hold?
a) 16 pints b) 12 pints c) 4 pints d) 2 pints

3. The boy scouts reserved 4 rows with 7 seats in each row.
Only 18 scouts came to the game.
How many seats in the scout section were not filled?
a) 46 b) 28 c) 10 d) 8

4. Jill took tickets at the movies.
Adult tickets were \$1.00 and children's tickets were 50¢.
40 adults and 60 children bought tickets.
How much money did they collect?
a) \$100 b) \$70 c) \$60 d) \$50

5. Ellen bought 12 pepper plants at a sale price of 3 plants for 40¢.
They usually cost 25¢ each.
How much did she pay for the plants?
a) \$4.80 b) \$3.00 c) \$1.60 d) \$1.20