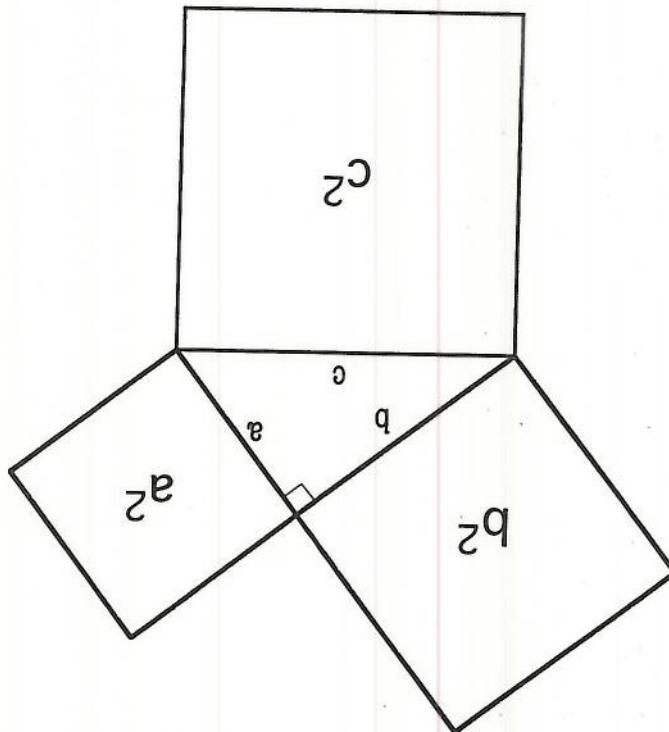
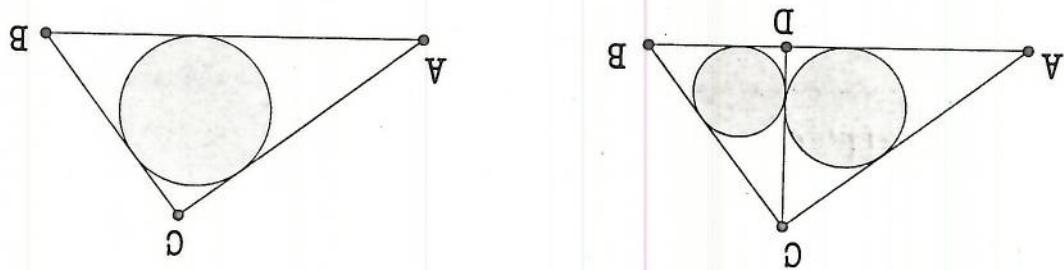


$$a^2 + b^2 = c^2$$



4. Explain how the previous three exercises helped you gain insight into the Pythagorean Theorem.



What is the area of the incircle on the right?

What is the total area of the 2 incircles on the left?

3. In each triangle below, $\overline{CD} \perp \overline{AB}$. On the left, $CD = 3$, $AC = 4$, and $AB = 5$.

$$= \frac{3u + 4}{u + 1}$$

$$= \frac{2u + 4}{3u + 4}$$

$$= \frac{3u + 3}{u + 2}$$

$$= \frac{u + 1}{2u + 1}$$

$$= \frac{4u + 4}{4u + 2}$$

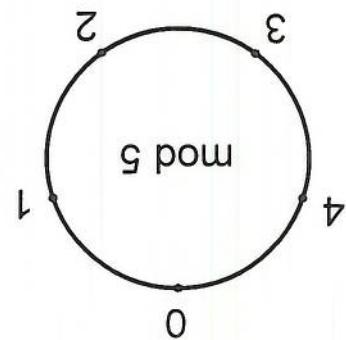
$$= \frac{2u + 1}{u}$$

$$= \frac{3u + 2}{2u + 2}$$

$$= \frac{3u + 1}{4u + 3}$$

4												1
												3u

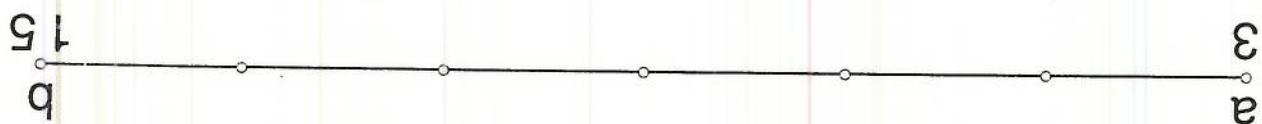
$$u^2 = 2u + 2$$



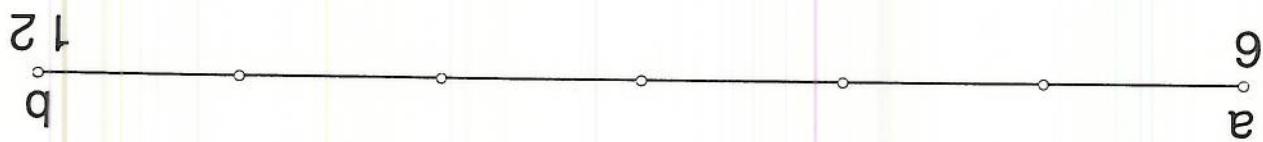
$$\frac{a+b}{2ab} =$$



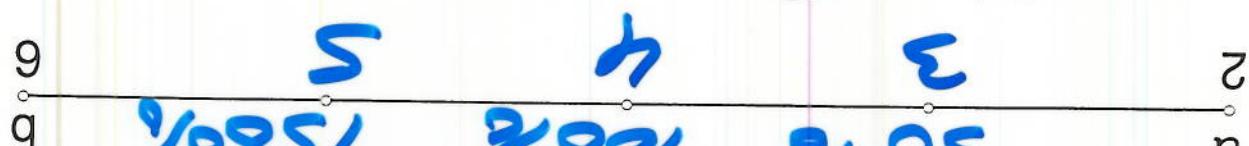
$$\frac{a+b}{2ab} =$$



$$\frac{a+b}{2ab} =$$



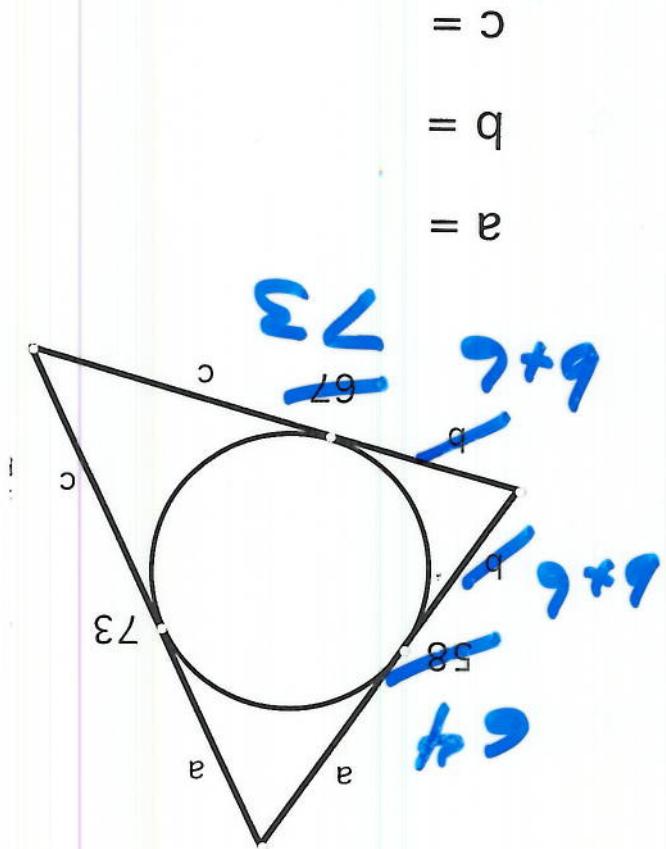
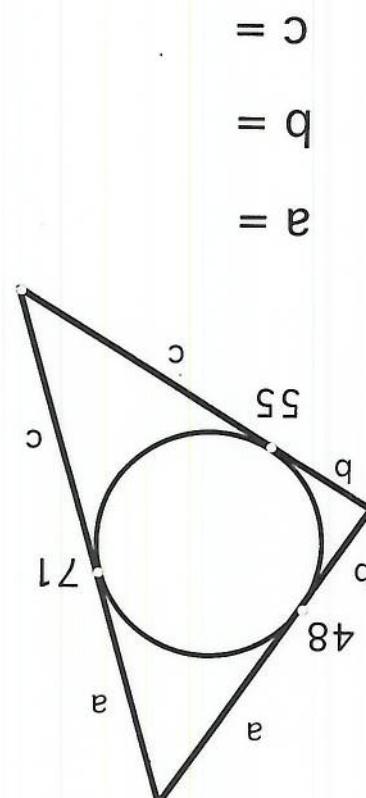
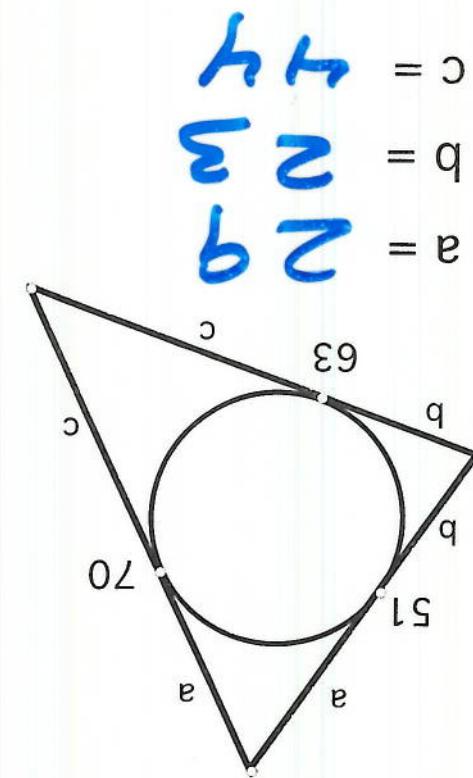
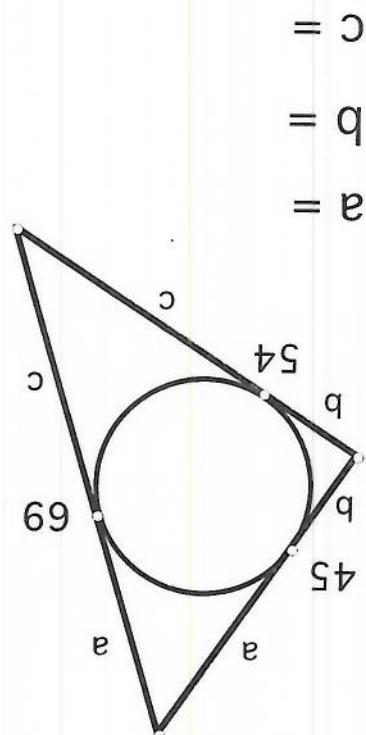
$$\frac{a+b}{2ab} = 3$$

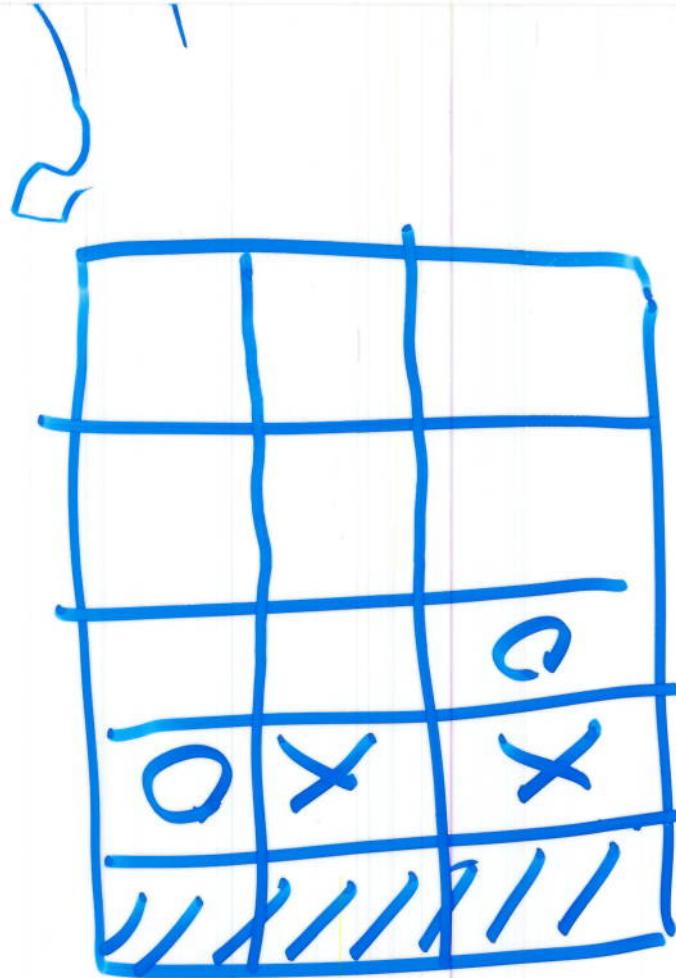


Bargaining
-16%
33 1/3%
150%
50%
4
5
6
a
b

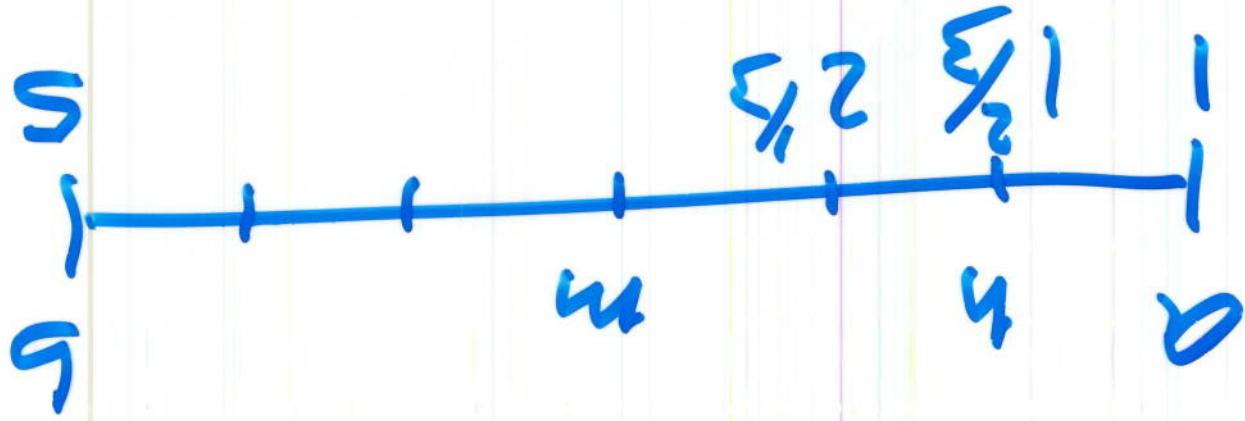
why

The Harmonic Mean





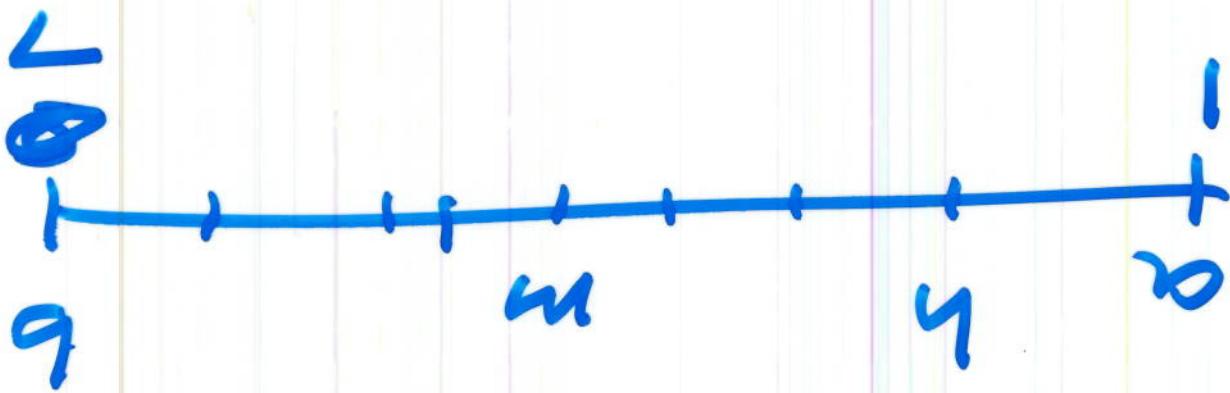
$$\frac{m}{n} = \frac{1+s}{1-s} = \frac{s+q}{s-q}$$

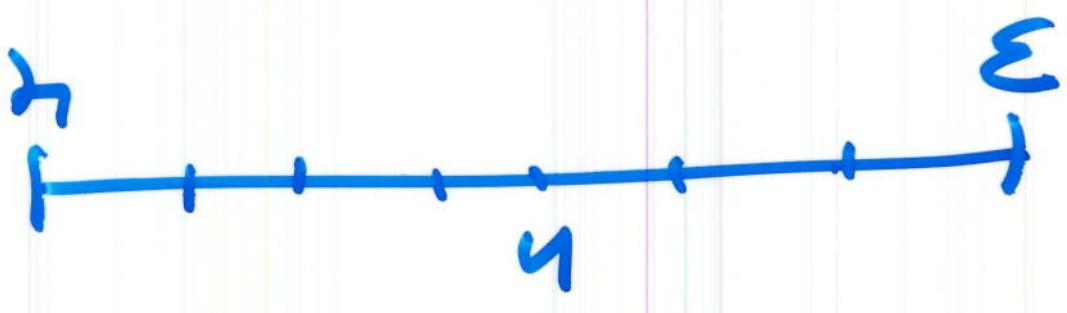


$$\frac{q+b}{2ab}$$

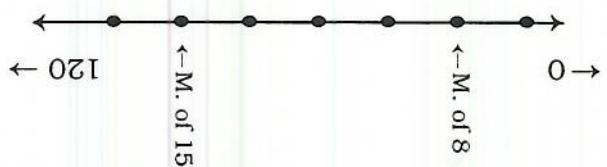
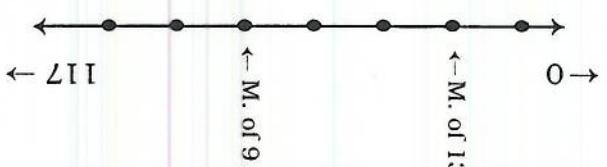
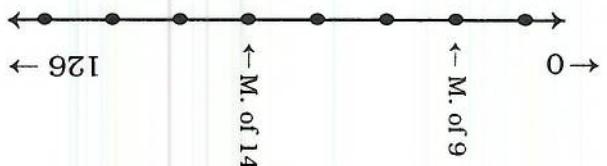
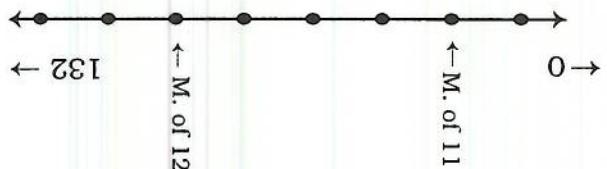
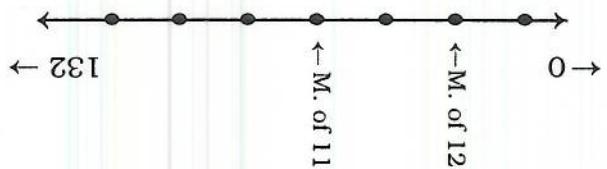
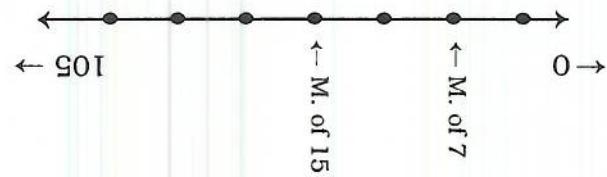
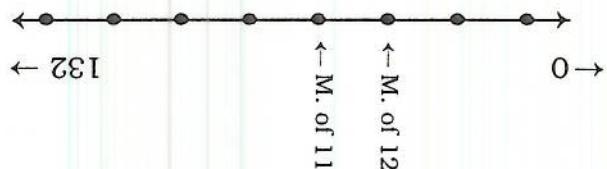
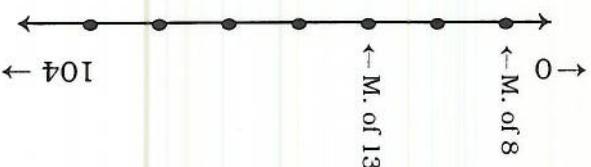
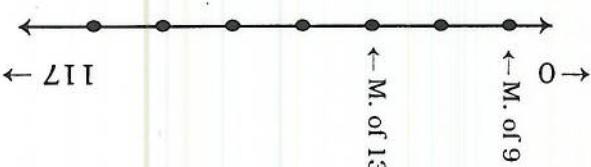
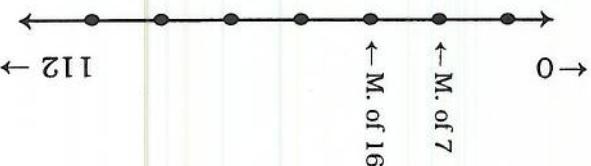
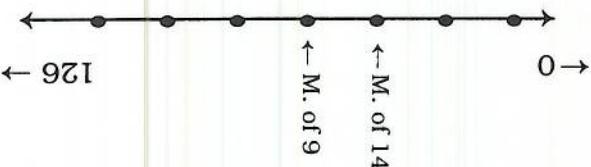
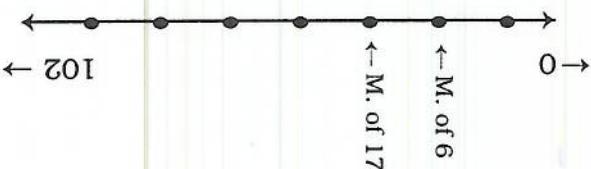
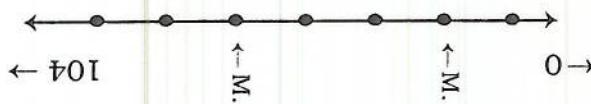
$$\left(\frac{b+q}{b-q} \right) b + b$$

$$\frac{b+q}{b-q} = \frac{1+L}{1-L}$$





M. = multiple

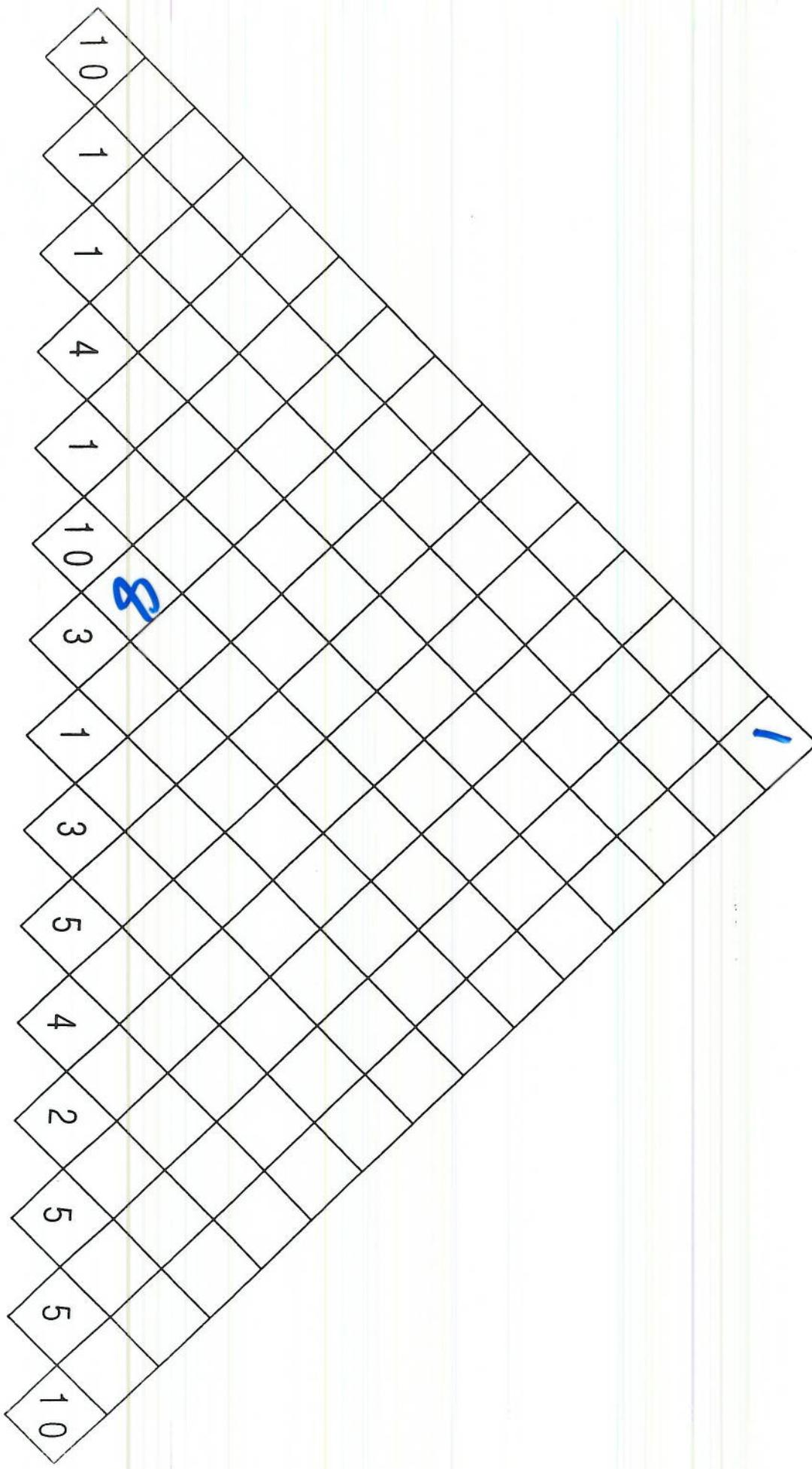


Lost on the Number Line

489	$\frac{x}{7}$	723	5061	3423
308	$\frac{x}{7}$	388	2716	2156
330	$\frac{x}{7}$	550	3850	2310
781	$\frac{x}{7}$	396	2772	5467
616	$\frac{x}{7}$	707	4949	4312
935	$\frac{x}{7}$	234	1638	6545
776	$\frac{x}{7}$	198	1386	5432
490	$\frac{x}{7}$	298	2086	3423
590	$\frac{x}{7}$	385	2695	489
659	$\frac{x}{7}$	739	6314	308
671	$\frac{x}{7}$	367	2569	330
924	$\frac{x}{7}$	572	4004	781
679	$\frac{x}{7}$	436	5852	616
979	$\frac{x}{7}$	693	4851	935
493	$\frac{x}{7}$	707	3052	616
494	$\frac{x}{7}$	218	6958	935
286	$\frac{x}{7}$	198	1526	776
694	$\frac{x}{7}$	198	1386	776
475	$\frac{x}{7}$	845	5915	490
715	$\frac{x}{7}$	715	5005	590

The Christmas Tree

0, 11, 22, 33, 44, 55, 66, 77, 88, 99



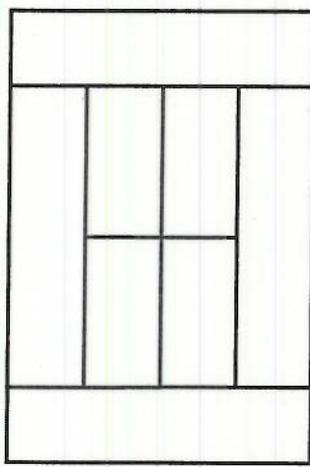
$5() + 8() = 1$	$5() + 8() = 21$
$5() + 8() = 2$	$5() + 8() = 22$
$5() + 8() = 3$	$5() + 8() = 23$
$5(4) + 8(3) = 4 + 40$	$5() + 8() = 24$
$5() + 8() = 5$	$5() + 8() = 25$
$5() + 8() = 6$	$5() + 8() = 26$
$5() + 8() = 7$	$5() + 8() = 27$
$5() + 8() = 8$	$5() + 8() = 28$
$5() + 8() = 9$	$5() + 8() = 29$
$5() + 8() = 10$	$5() + 8() = 30$
$5() + 8() = 11$	$5() + 8() = 31$
$5() + 8() = 12$	$5() + 8() = 32$
$5() + 8() = 13$	$5() + 8() = 33$
$5() + 8() = 14$	$5() + 8() = 34$
$5() + 8() = 15$	$5() + 8() = 35$
$5() + 8() = 16$	$5() + 8() = 36$
$5() + 8() = 17$	$5(1) + 8(4) = 37$
$5(2) + 8(1) = 18$	$5() + 8() = 38$
$5() + 8() = 19$	$5() + 8() = 39$
$5() + 8() = 20$	

In each problem, try to complete the equation by putting a whole number into each parenthesis. But fourteen of the problems are impossible. If (and only if) a problem is impossible, add 40 to the right side of the equation. After doing this, the equation can be completed. Three problems, including one of the impossible ones, are done as examples.

$20 \times 99 = 1980$	$26 \times 76 = 1976$	$34 \times 57 = 1938$		
$20 \times 98 =$	$26 \times 75 =$	$34 \times 56 =$		
$20 \times 97 = 1940$	$26 \times 74 = 1924$	$35 \times 56 = 1960$		
$20 \times 96 =$	$27 \times 74 =$	$35 \times 57 =$		
$20 \times 95 = 1900$	$27 \times 73 = 1971$	$35 \times 55 = 1925$		
$21 \times 95 =$	$27 \times 72 =$	$36 \times 55 =$		
$21 \times 94 = 1974$	$27 \times 71 = 1917$	$36 \times 54 = 1944$		
$21 \times 93 =$	$28 \times 71 =$	$37 \times 54 =$		
$21 \times 92 = 1932$	$28 \times 70 = 1960$	$37 \times 53 = 1961$		
$21 \times 91 =$	$28 \times 69 =$	$37 \times 52 =$		
$22 \times 90 = 1980$	$28 \times 68 = 1904$	$38 \times 52 =$		
$22 \times 89 =$	$29 \times 68 =$	$38 \times 51 = 1938$		
$22 \times 88 = 1936$	$29 \times 67 = 1943$	$38 \times 50 =$		
$22 \times 87 =$	$29 \times 66 =$	$38 \times 49 =$		
$23 \times 86 = 1978$	$30 \times 66 = 1980$	$39 \times 49 = 1911$		
$23 \times 85 =$	$30 \times 65 =$	$39 \times 48 =$		
$23 \times 84 = 1932$	$30 \times 64 = 1920$	$40 \times 49 =$		
$23 \times 83 =$	$31 \times 64 =$	$40 \times 48 =$		
$24 \times 83 = 1992$	$31 \times 63 = 1953$	$41 \times 48 =$		
$24 \times 82 =$	$31 \times 62 =$	$41 \times 47 =$		
$24 \times 81 = 1944$	$32 \times 62 = 1984$	$42 \times 47 =$		
$24 \times 80 =$	$32 \times 61 =$	$42 \times 46 = 1932$		
$25 \times 79 = 1975$	$32 \times 60 = 1920$	$43 \times 46 =$		
$25 \times 78 =$	$33 \times 60 =$	$43 \times 45 =$		
$25 \times 77 = 1925$	$33 \times 59 = 1947$	$44 \times 45 =$		
$25 \times 76 =$	$33 \times 58 =$	$44 \times 44 =$		

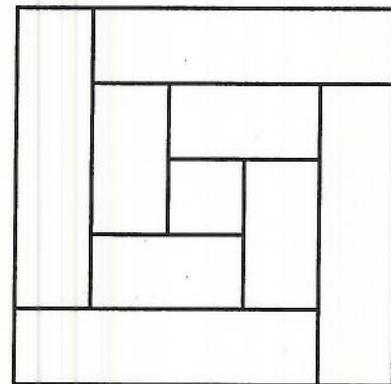
The total area is --- cm^2

The perimeter is --- cm



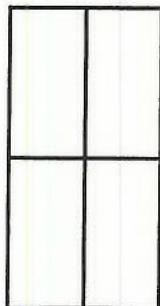
The total area is --- cm^2

The perimeter is --- cm



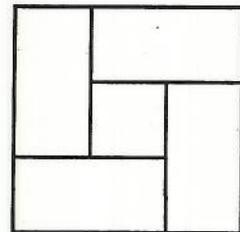
The total area is --- cm^2

The perimeter is --- cm



The total area is --- cm^2

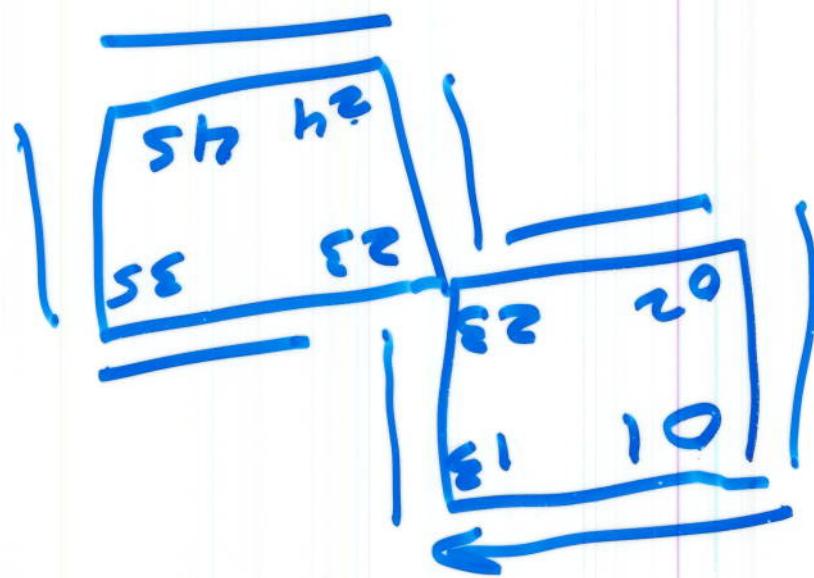
The perimeter is --- cm

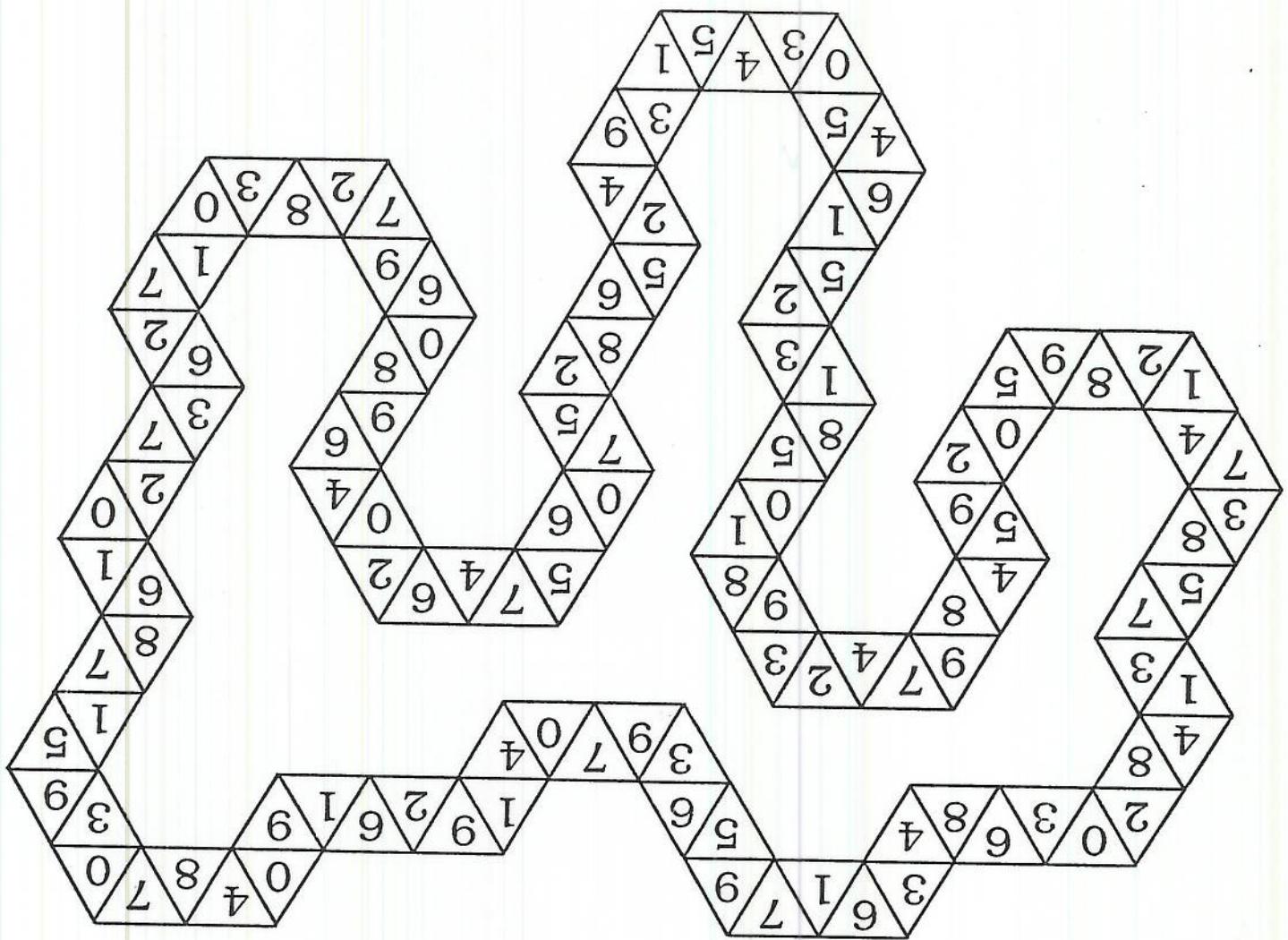


Write the area in square centimetres in each subregion of the four figures below.

B / BD
~~BB~~

base
Σιο





In the loop below, find a trapezoid that has 3 numbers in it that add up to one of the numbers in the box you choose. Find a total of 12 such trapezoids and lightly shade them in.

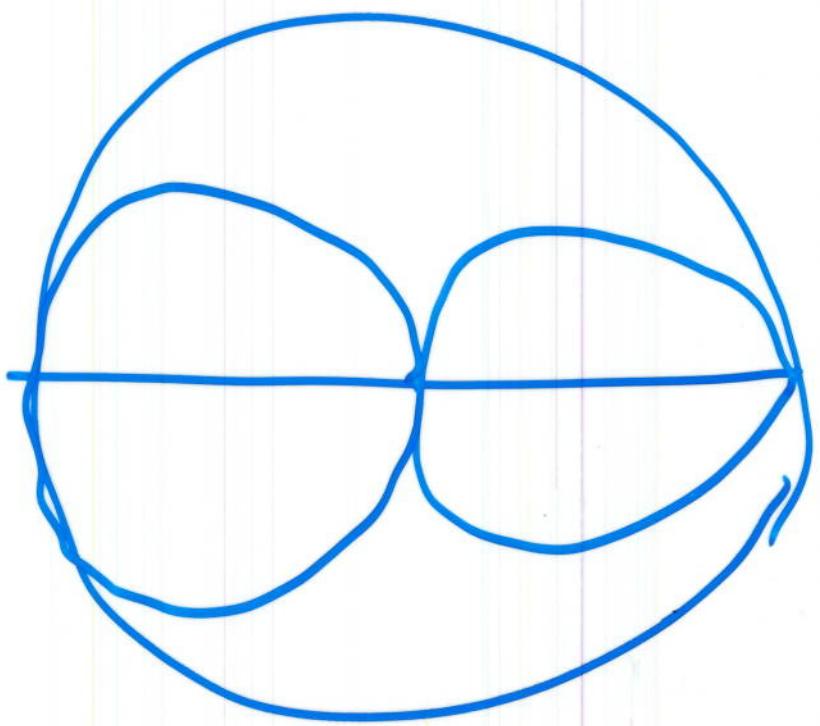


The shape on the right is a trapezoid that has 3 triangles in it. The numbers in it add up to 10.

.....
5 or 15	6 or 16	7 or 17	8 or 18
.....
10 or 20	11 or 21	12 or 22	3, 13, or 23
.....	4, 14, or 24

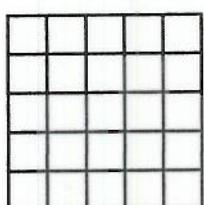
Draw a line around it (cover the dots).

Directions: Choose one of the boxes below.

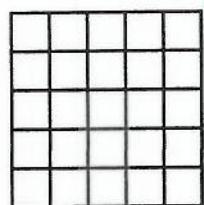


Polynomial	Factorization	$x = 0$	$x = 1$	$x = 2$	$x = 3$	$x = 4$
x^2						
$x^2 + 1$						
$x^2 + 2$						
$x^2 + 3$						
$x^2 + 4$						
$x^2 + x + 1$						
$x^2 + x + 2$						
$x^2 + x + 3$						
$x^2 + x + 4$						
$x^2 + x + 5$						
$x^2 + x + 6$						
$x^2 + x + 7$						
$x^2 + x + 8$						
$x^2 + x + 9$						
$x^2 + x + 10$						
$x^2 + x + 11$						
$x^2 + x + 12$						
$x^2 + x + 13$						
$x^2 + x + 14$						
$x^2 + x + 15$						
$x^2 + x + 16$						
$x^2 + x + 17$						
$x^2 + x + 18$						
$x^2 + x + 19$						
$x^2 + x + 20$						
$x^2 + 2x + 1$						
$x^2 + 2x + 2$						
$x^2 + 2x + 3$						
$x^2 + 2x + 4$						
$x^2 + 3x + 1$						
$x^2 + 3x + 2$						
$x^2 + 3x + 3$						
$x^2 + 3x + 4$						
$x^2 + 4x + 1$						
$x^2 + 4x + 2$						
$x^2 + 4x + 3$						
$x^2 + 4x + 4$						

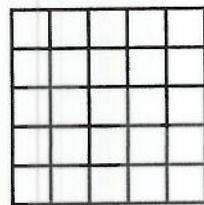
All of the polynomials are elements of $F_5[x]$



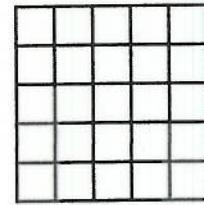
2,3



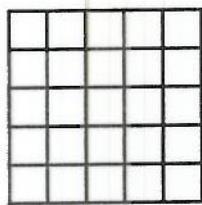
2,3



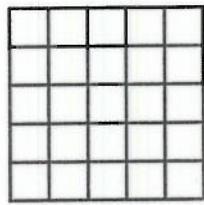
2,3



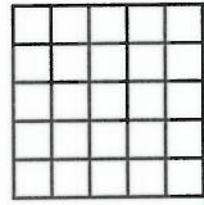
2,3



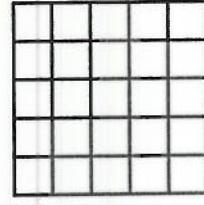
2,2



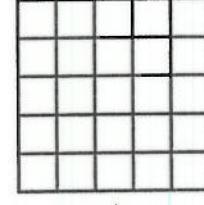
2,2



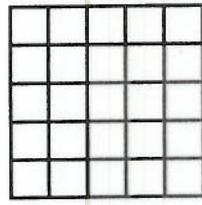
2,2



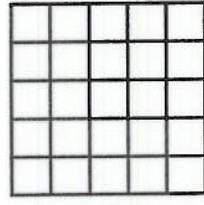
2,2



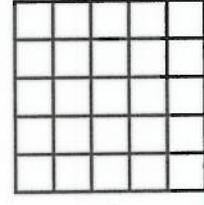
2,2



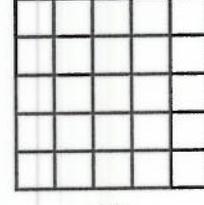
2,2



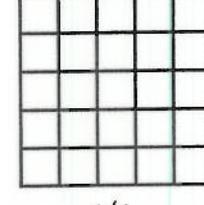
1,6



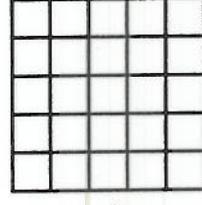
1,5



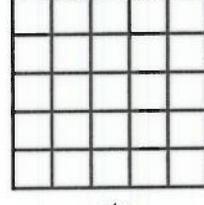
1,5



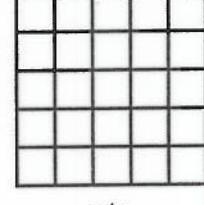
1,4



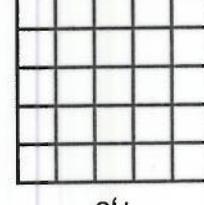
1,4



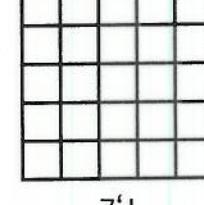
1,4



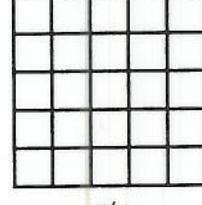
1,3



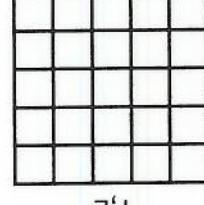
1,3



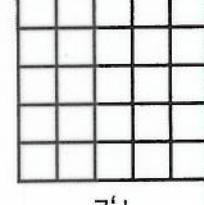
1,2



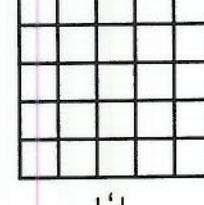
1,2



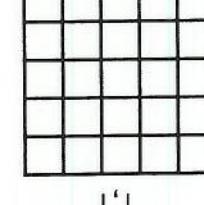
1,2



1,1



1,1



1,1

1	2	3	2	1
2	4	5	4	2
3	5	6	5	3
2	4	5	4	2
1	2	3	2	1

$$x = \frac{ba + ab}{ab(a + b - 1)} = h$$

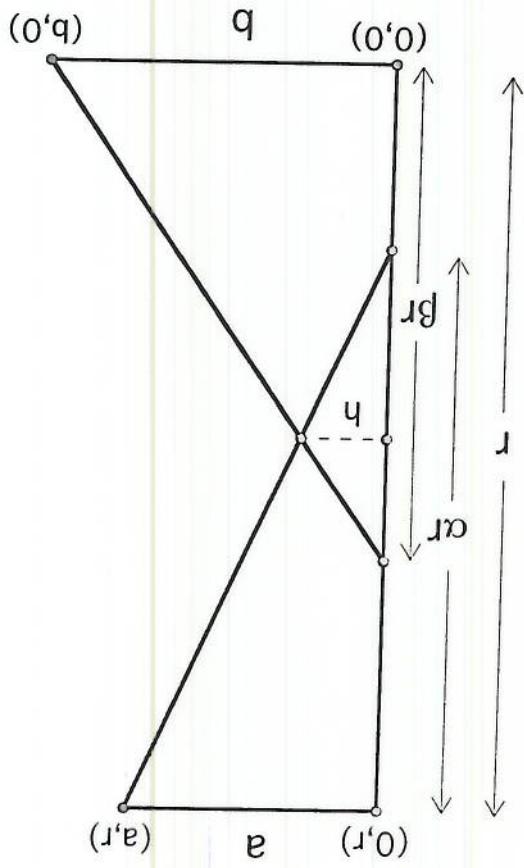
$$\frac{ba + ab}{ab} x = a + b - 1$$

$$\frac{ab}{bar} x + \frac{ab}{ar} x = br - r(1 - a)$$

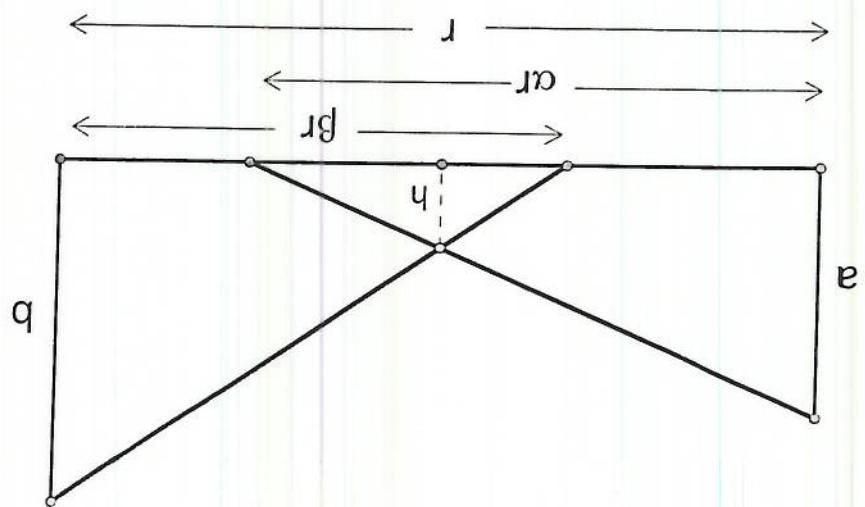
$$-br x + br = \frac{a}{ar} x + r(1 - a)$$

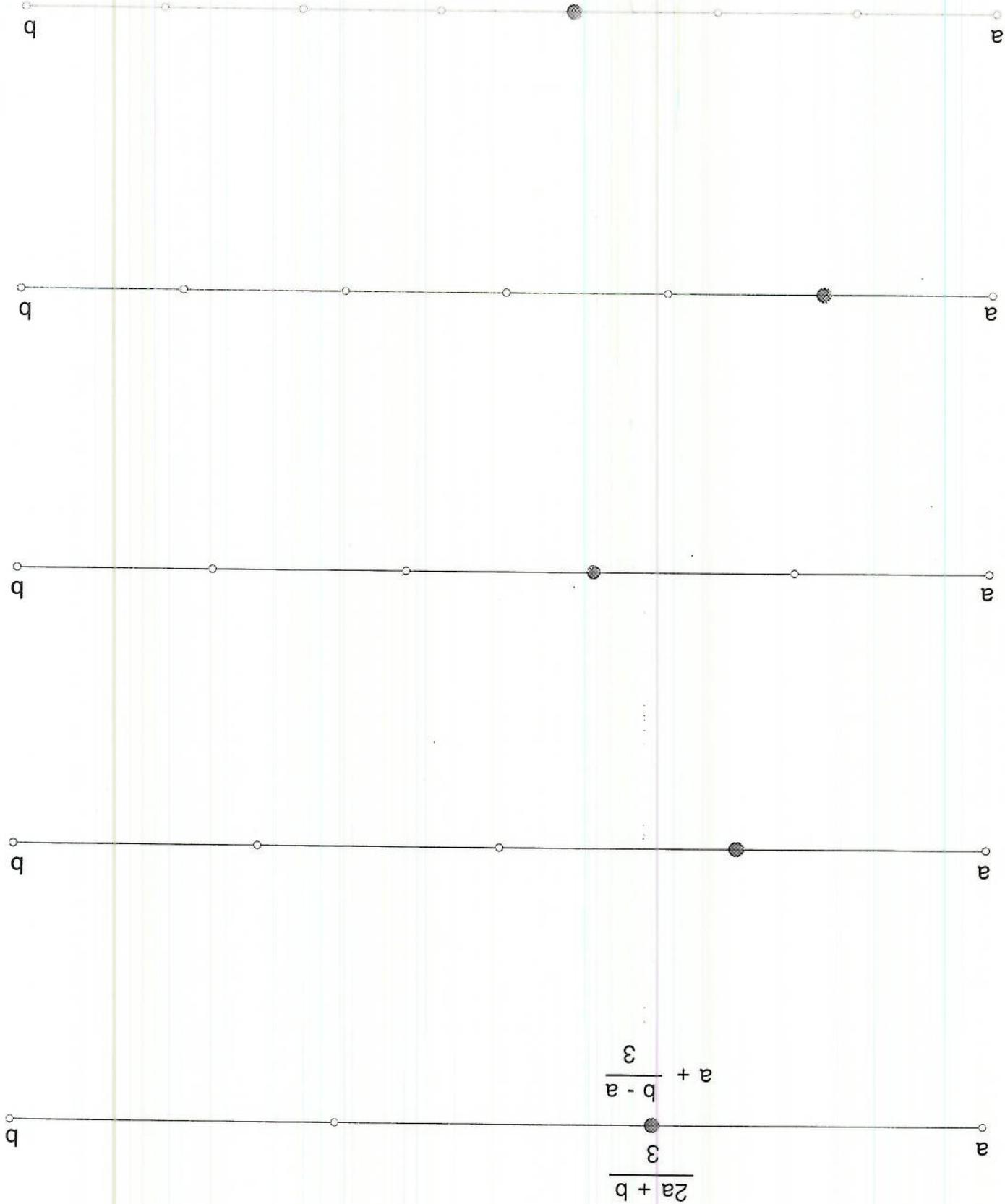
$$y = \frac{a}{ar} x + r - ar$$

$$y = \frac{b}{br} x + br$$



To simplify the derivation of a formula for h , the original diagram on the left has been turned on its side.





Label each enlarged point with an algebraic expression in two different ways.

$$\frac{2a+b}{3}$$

$$\frac{a+b}{3}$$

$$\frac{a+3}{3}$$

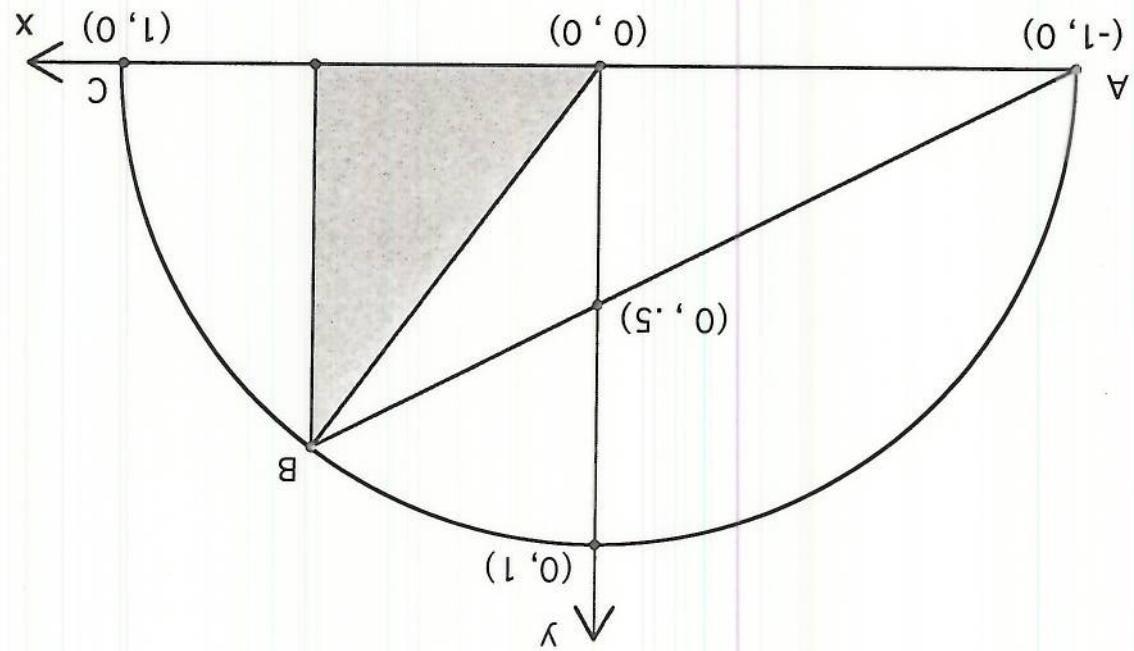
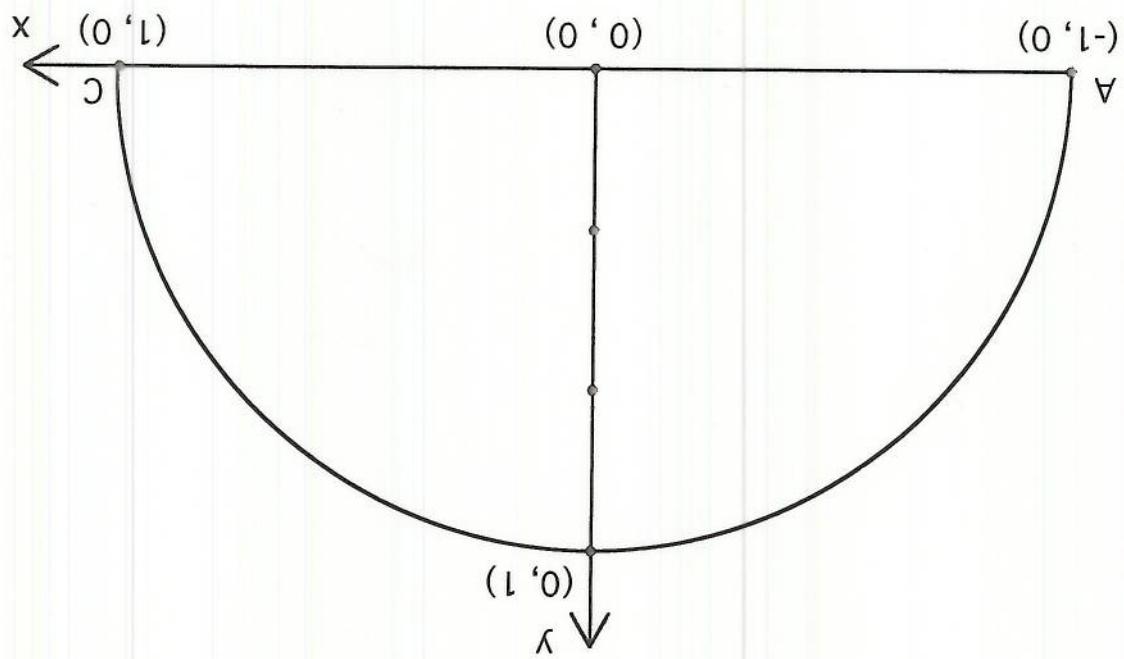
$$\frac{b-a}{3}$$

$$\frac{a+3}{3}$$

$$\frac{2\left(\frac{2}{5}\right)}{1 + \left(\frac{2}{5}\right)^2} =$$

$$\frac{2\left(\frac{3}{5}\right)}{1 + \left(\frac{3}{5}\right)^2} =$$

$$\frac{2\left(\frac{4}{5}\right)}{1 + \left(\frac{4}{5}\right)^2} =$$



5	5×1	$(3 + 2)(3 - 2)$	$3^2 - 2^2$	$9 - 4$	n
8					
11					
13					
16					
19					
21					
24					
27					
32					
36					
37					
40					
40					
40					

b and a are positive integers, both even or both odd, $b > a$, and $ba = n$
 difference of squares of consecutive positive integers
 $m = \frac{b-a}{2}$
 $d = \frac{b+a}{2}$

26 20

24 20

100 93

100 97

50 47

50 54

$$16^2 = 256$$

$$16^2 = 220 + 36$$

$$16^2 = (10)(22) + 6^2$$

17 10

22 16 10

Multiples Chart

-81	-72	-63	-54	-45	-36	-27	-18	-9	0	9	18	27	36	45	54	63	72	81
-72	-64	-56	-48	-40	-32	-24	-16	-8	0	8	16	24	32	40	48	56	64	72
-63	-56	-49	-42	-35	-28	-21	-14	-7	0	7	14	21	28	35	42	49	56	63
-54	-48	-42	-36	-30	-24	-18	-12	6	0	-6	-12	-18	-24	-30	-36	-42	-48	-54
-45	-40	-35	-30	-25	-20	-15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
-36	32	28	24	20	16	12	8	4	0	-4	-8	-12	-16	-20	-24	-28	-32	-36
27	24	21	18	15	12	9	6	3	0	-3	-6	-9	-12	-15	-18	-21	-24	-27
18	16	14	12	10	8	6	4	2	0	-2	-4	-6	-8	-10	-12	-14	-16	-18
9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9
-18	-16	-14	-12	-10	-8	-6	-4	-2	0	2	4	6	8	10	12	14	16	18
-27	-24	-21	-18	-15	-12	-9	-6	-3	0	3	6	9	12	15	18	21	24	27
-36	-32	-28	-24	-20	-16	-12	-8	-4	0	4	8	12	16	20	24	28	32	36
-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45
36	32	28	24	20	16	12	8	4	0	4	8	12	16	20	24	28	32	36
27	24	21	18	15	12	9	6	3	0	-3	-6	-9	-12	-15	-18	-21	-24	-27
18	16	14	12	10	8	6	4	2	0	-2	-4	-6	-8	-10	-12	-14	-16	-18
9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
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-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9
27	24	21	18	15	12	9	6	3	0	-3	-6	-9	-12	-15	-18	-21	-24	-27
18	16	14	12	10	8	6	4	2	0	-2	-4	-6	-8	-10	-12	-14	-16	-18
9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
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27	24	21	18	15	12	9	6	3	0	-3	-6	-9	-12	-15	-18	-21	-24	-27
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18	16	14	12	10	8	6	4	2	0	-2	-4	-6	-8	-10	-12	-14	-16	-18
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9	8	7	6	5	4	3	2	1	0	-1	-2	-3	-4	-5	-6</td			

1. Find the length and width of a rectangle that has a perimeter of 132 units and an area of 1025 square units?

2. Find the length and width of a rectangle that has a perimeter of 112 units and an area of 703 square units.

3. Find the length and width of a rectangle that has a perimeter of 140 units and an area of 1176 square units.

4. Find the length and width of a rectangle that has a perimeter of 152 units and an area of 1323 square units.

$$h(x) = (2x + 3)(3x + 3) = Ax^2 + Bx + C =$$

∇^2	∇	$h(x)$	x	0
				1
				2
				3
				4

$$A = \frac{2}{T}, \quad B = N - A$$

$$= (-)l + (-)2 + (-)l$$

$$= (\quad)0 + (\quad)1 + (\quad)1$$

$$= (\quad)0 + (\quad)0 + (\quad)1$$

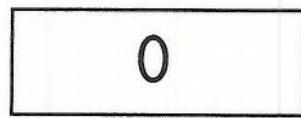
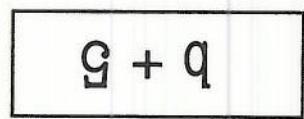
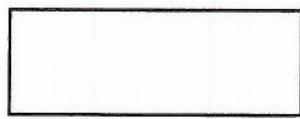
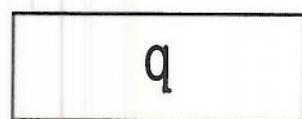
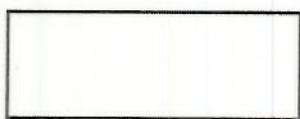
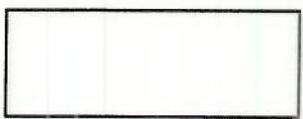
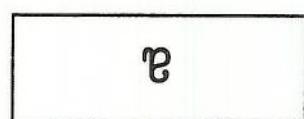
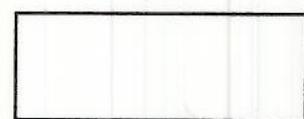
T N C

$$\varepsilon + x\varepsilon = (x)\mathfrak{g}$$

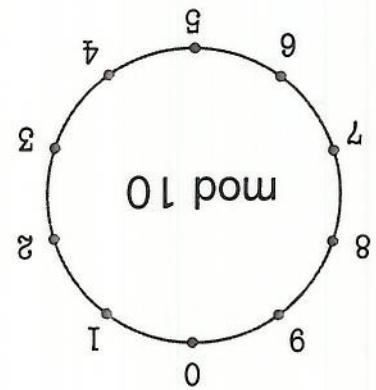
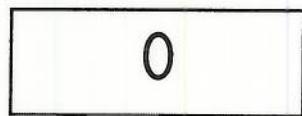
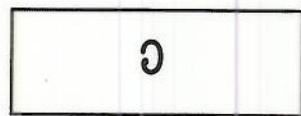
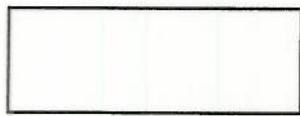
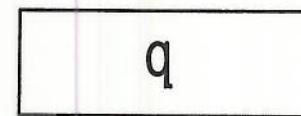
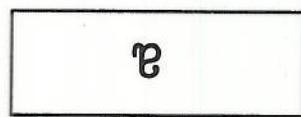
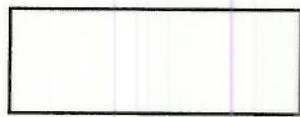
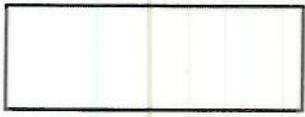
$$(x)g \circ (x)f = (x)h$$

$$f(x) = 2x + 10$$

x	$f(x)$	$g(x)$	$h(x)$
-7	6		
-6			
-5			
-4			
-3			
-2			
-1			
0			
1			
2			
3			
4			
5			
6			



$$a - a + a - a + b - b + b + b - 2b + 3b + c - c - 2c + c - 3c =$$



3

5

0

Substitute 3 for a in the triangle above to complete the triangle below.

- $a + 5$

- a

$a + 5$

a

$-(2a + 5)$

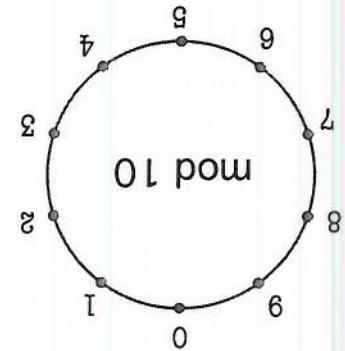
5

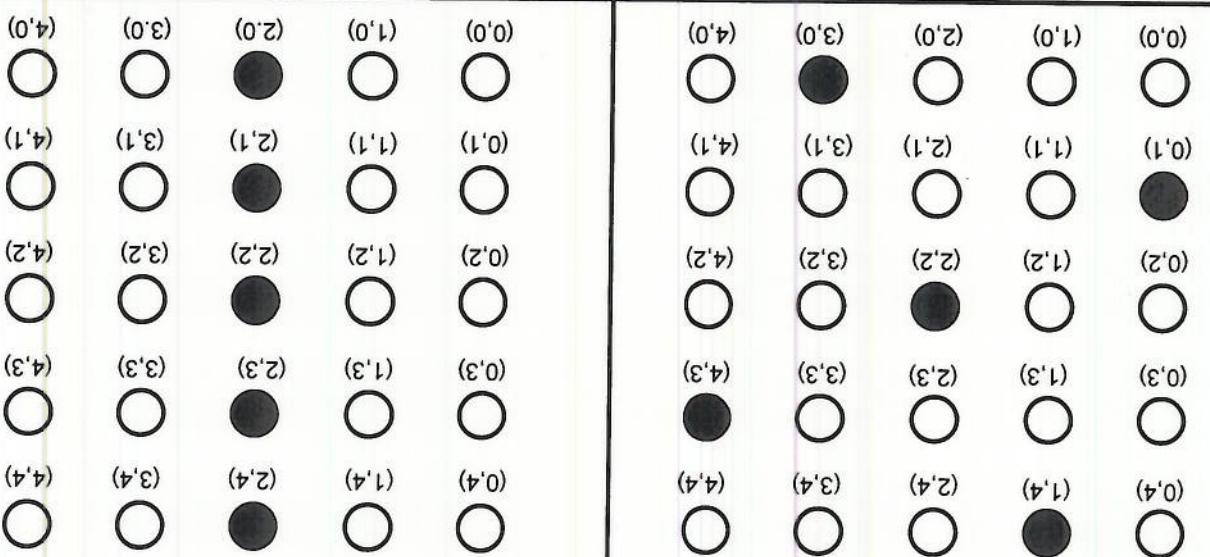
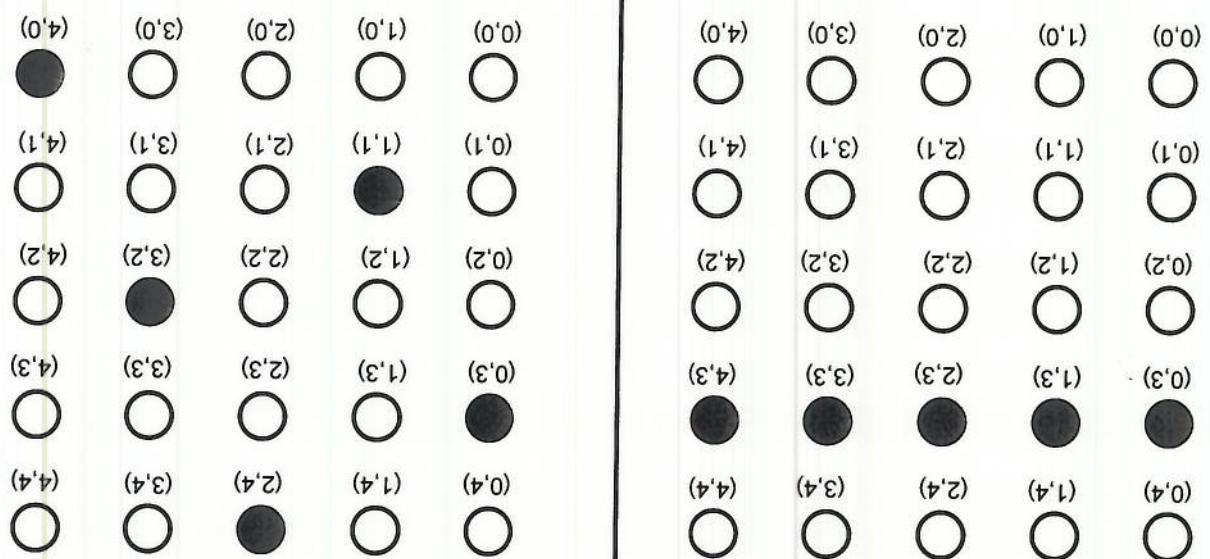
$2a + 5$

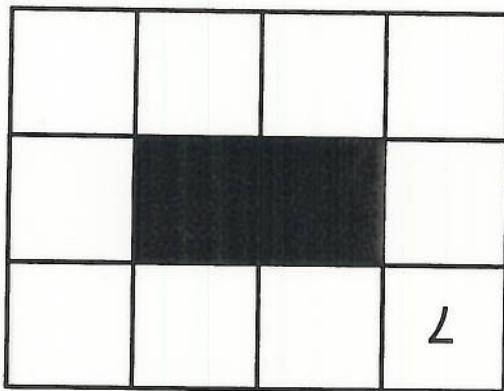
$-2a$

$2a$

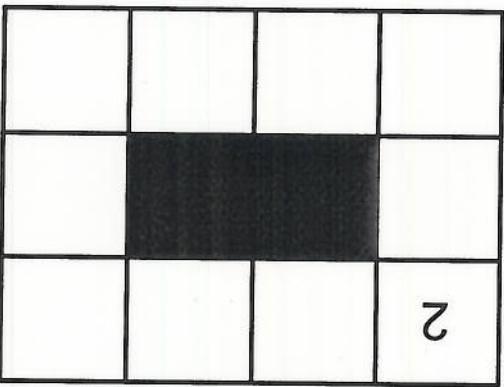
0



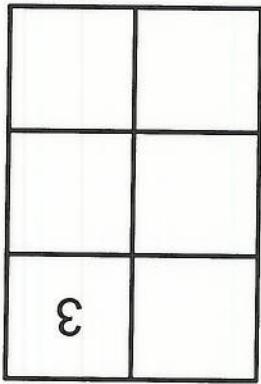




7

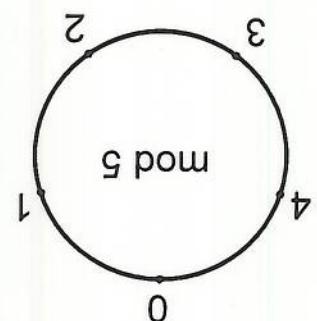
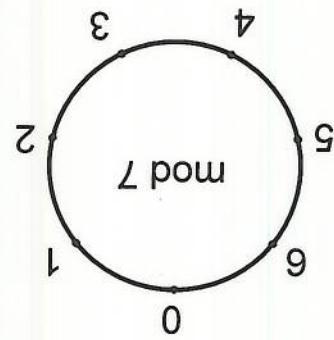
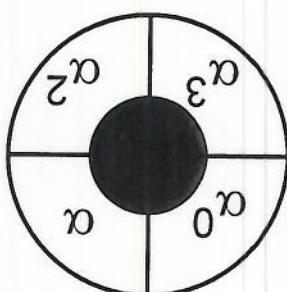
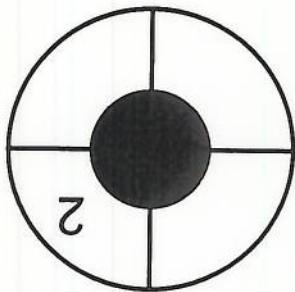
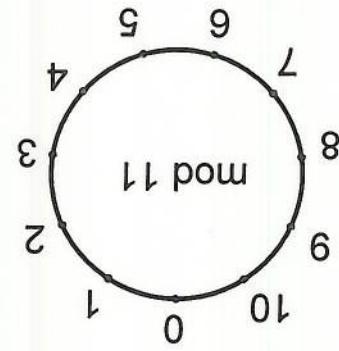


2

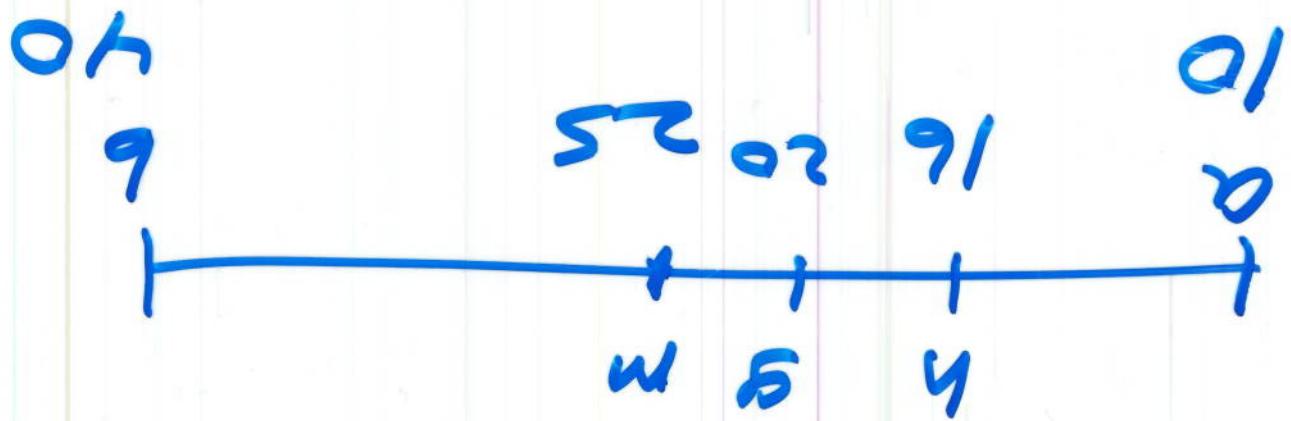
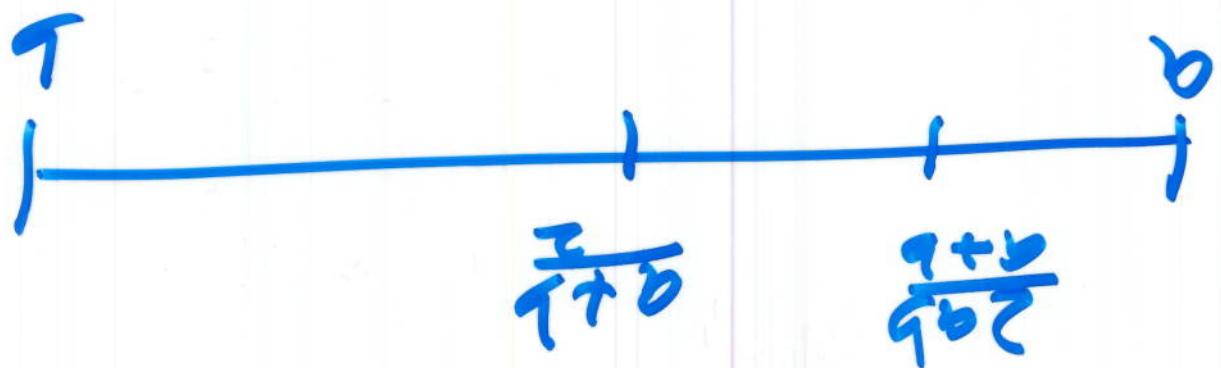


3

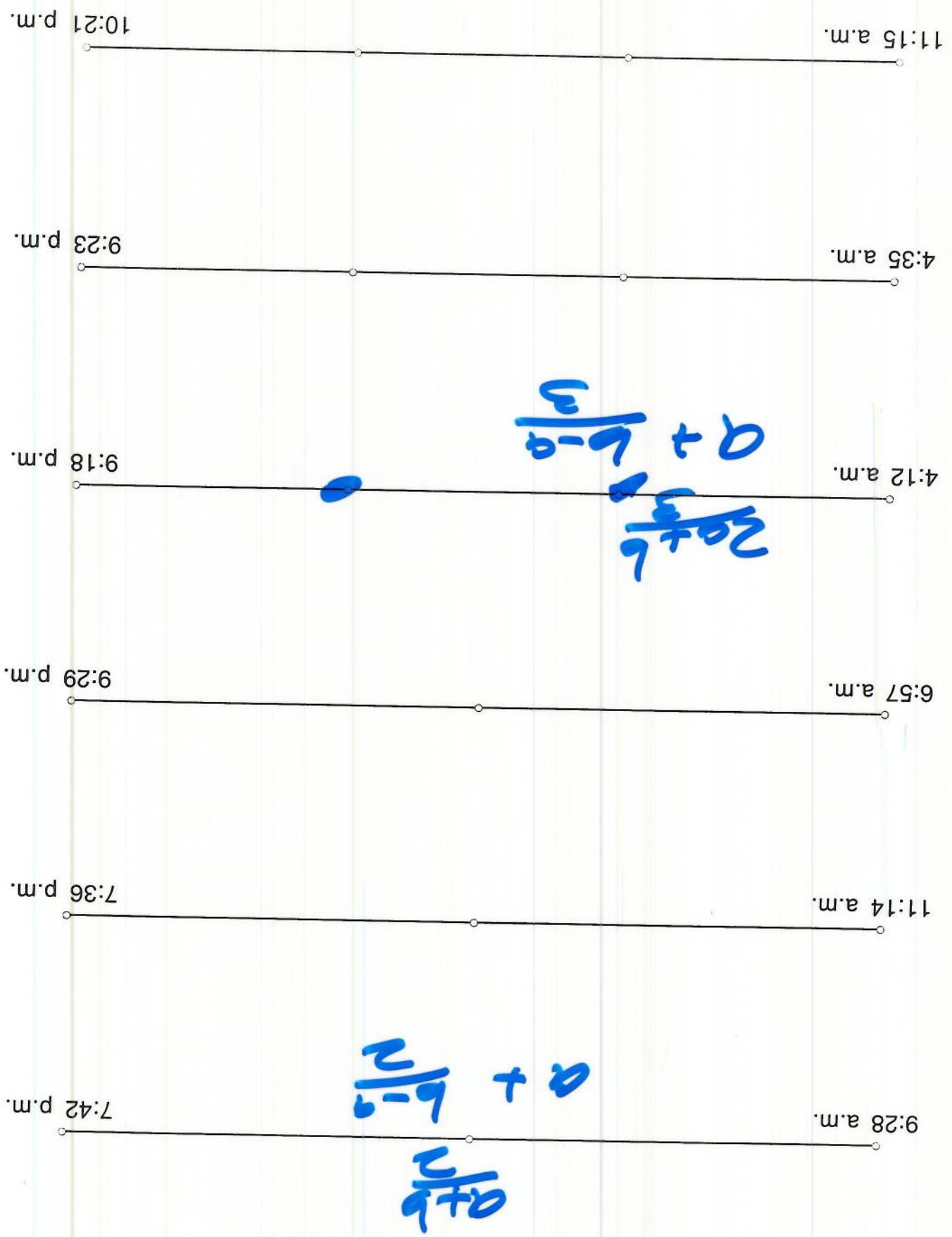
α_0	α
α_5	α_2
α_4	α_3



$$\frac{q+a}{aq+q^2}$$



$$m = aq$$



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