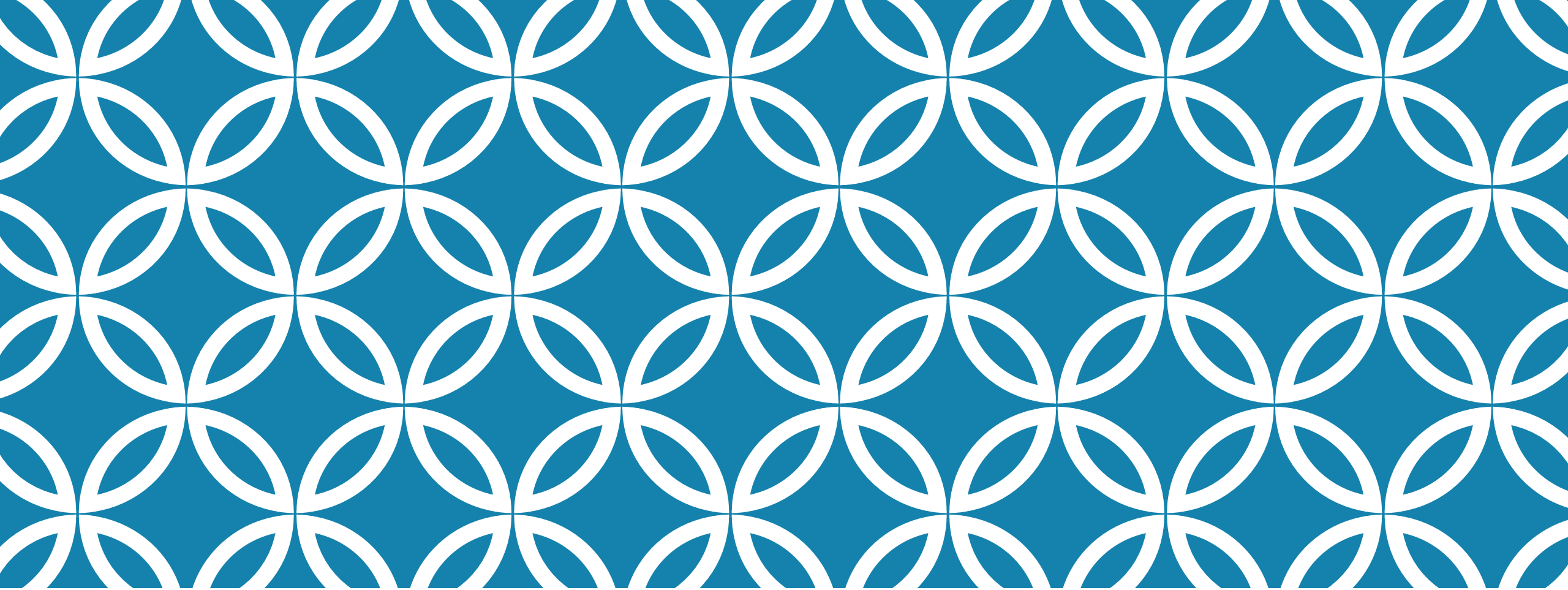


HONORS TEST 2 REVIEW GAME

SCORE SHEET

	Problems																			
Groups Names	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

4 points for correct answer within 1 minute
3 points for correct answer within 2 minutes
2 points for correct answer within 3 minutes
1 points for correct answer within 4 minutes

PROBLEM 1:

Solve the Inequality

$$-8x + 6 \geq 62$$

PROBLEM 2:

Given the point $(4, -2)$. Determine if point is a solution to the equation $7x + 4y = 20$. Must show work.

PROBLEM 3:

solve the formula for r

$$c(r - a) = b$$

PROBLEM 4:

Allison has saved \$7 and will earn \$5 per day. Matt has saved \$15 and will earn \$3 per day. How many days will it take them to have the same amount of money?

Find the common point with tables.

Allison: $\mathrm{a}(d) = 7 + 5d$ Matt: $\mathrm{m}(d) = 15 + 3d$

d	$\mathbf{a}(d)$
1	
2	
3	
4	

d	$\mathbf{m}(d)$
1	
2	
3	
4	

PROBLEM 5:

Complete the table and graph the points. (On test will need to plot the points.) $y = 3x+4$

x	y
-2	
-1	
0	
1	
2	

PROBLEM 6:

Given the order pairs, state the domain and range.

$(5, 3), (4, 2), (7, -1), (9, 4), (-2, 2)$

Domain: { }

Range: { }

PROBLEM 7:

Solve the Equation

$$9 = \frac{x}{8} - 3$$

PROBLEM 8:

Solve the equation.

$$3(5x - 1) = 24 + 6x$$

PROBLEM 9:

State the first 4 terms in the sequence given the explicit rule $f(n) = 4n + 19$

PROBLEM 10:

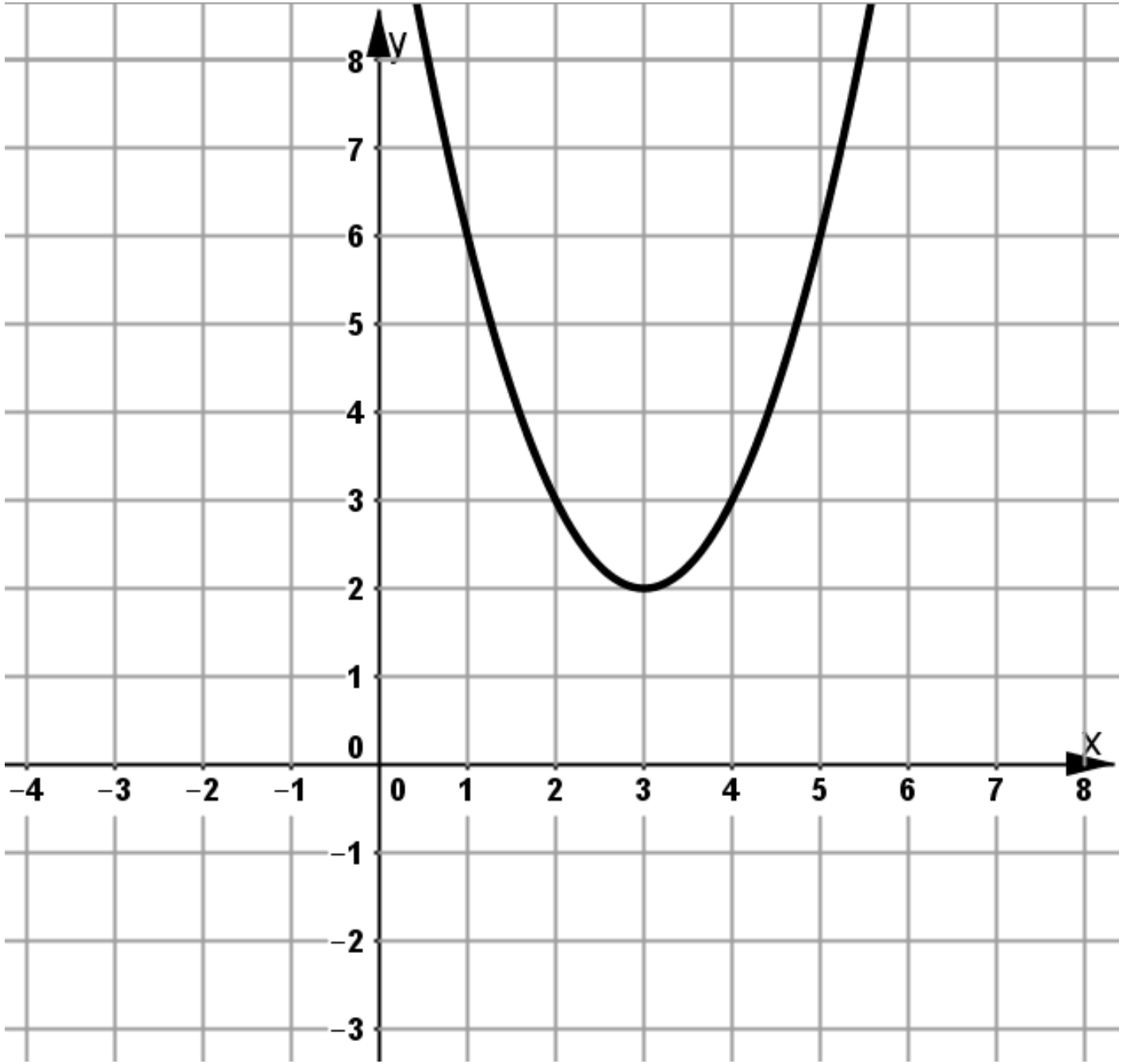
Allison has saved $\$7$ and will earn $\$5$ per day. Matt has saved $\$15$ and will earn $\$3$ per day. How many days will it take them to have the same amount of money?

Find the common point (solution) by solving the equation $a(d) = m(d)$.

Allison: $\mathrm{a}(d) = 7 + 5d$ Matt: $\mathrm{m}(d) = 15 + 3d$

PROBLEM 11:

State the domain and range in inequality notation.



PROBLEM 12:

Determine if the table is a function or not a function. Justify your answer.

x	y
1	0
3	-7
-1	4
5	-9
3	-7

x	y
6	-10
-11	8
8	2
6	-9
-3	-7

PROBLEM 13:

Solve the inequality.

$$7x - 3 > -66 - 2x$$

PROBLEM 14:

Graph the inequality on a number line.

Part 1: $x > -6$

Part 2: $4 \geq x$

PROBLEM 15:

Jimmy is buying a watch and is getting a 35% discount. He paid $61.75 with the discount. How much was the original price of the watch?

Write an equation to model the situation. Then solve the equation.

PROBLEM 16:

Given the sequence below, write **both explicit rules.**

n	$f(n)$
1	55
2	49
3	43
4	37

PROBLEM 17:

Ms. Fields charges a $1.00 flat rate to enter her amazing math class and $0.35 per question asked. Kate, a student in Ms. Fields class has no more than $6 to spend on today's class. Write an inequality that represents Kate's situation. How many questions can Kate ask without exceeding her limit?