

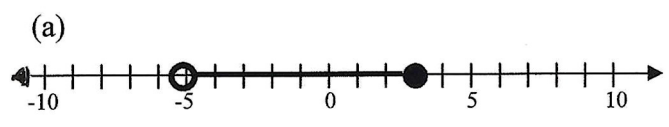
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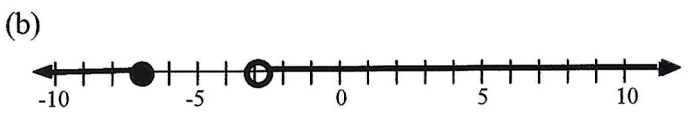
INTERVAL NOTATION COMMON CORE ALGEBRA I HOMEWORK

FLUENCY

1. Write sets using **interval notation** for the sections of the number lines shown graphed below.



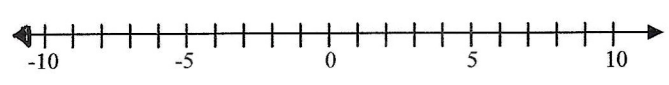
Equivalent Interval Notation: _____



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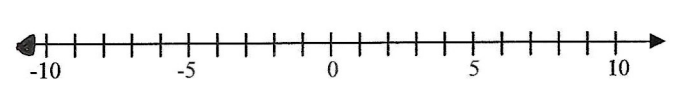
2. For each of the following, graph the portion of the number line described by the inequality and then write the equivalent using **interval notation**.

(a) $x > 4$



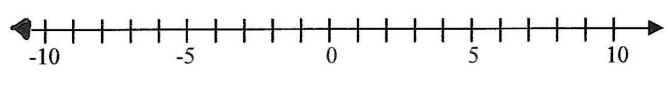
Equivalent Interval Notation: _____

(b) $-2 \leq x < 7$



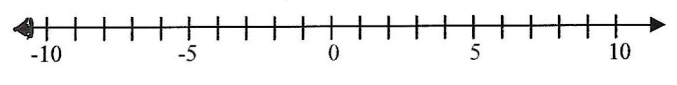
Equivalent Interval Notation: _____

(c) $-3x + 2 < 17$



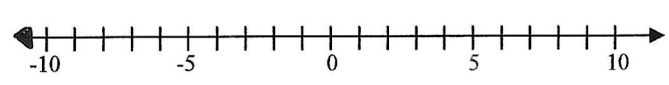
Equivalent Interval Notation: _____

(d) $2x + 5 \geq -6$



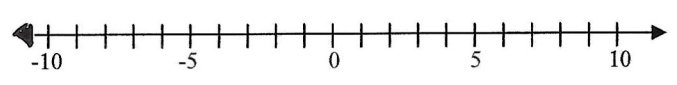
Equivalent Interval Notation: _____

(e) $x \geq 3$ or $x < 2$



Equivalent Interval Notation: _____

(f) $x \geq 4$ or $x < -4$

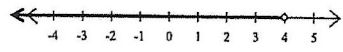
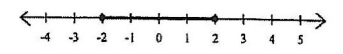
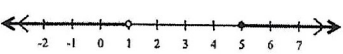
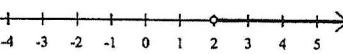
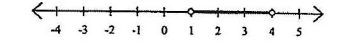
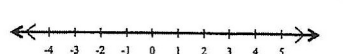


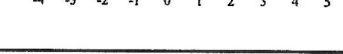
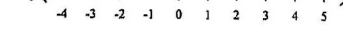
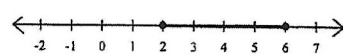


Equivalent Interval Notation: _____

Name: _____

Date: _____

Inequalities, Interval Notation, Set Builder Notation Matching

Inequality	Interval Notation	Graph
1) $-3 \leq x < 5$ _____	A) $(-\infty, 4)$	M) 
2) $x > 2$ _____	B) $[5, \infty)$	N) 
3) $x \leq 3$ _____	C) $(-5, -1)$	O) 
4) $x < 4$ _____	D) $(-\infty, -1] \cup (2, \infty)$	P) 
5) $2 \leq x \leq 6$ _____	E) $[-3, 5)$	Q) 
6) $x \geq 5$ _____	F) $[-2, 2]$	R) 
7) $x < 1$ or $x \geq 5$ _____	G) $(-\infty, 3]$	S) 
8) $-5 < x < -1$ _____	H) $(1, 4)$	T) 
9) x is any real # _____	I) $[2, 6]$	U) 
10) $x \leq -1$ or $x > 2$ _____	J) $(2, \infty)$	V) 
11) $1 < x < 4$ _____	K) $(-\infty, 1) \cup [5, \infty)$	W) 
12) $-2 \leq x \leq 2$ _____	L) $(-\infty, \infty)$	Z) 