

NO CALCULATOR MAY BE USED!

- (1) Complete the following table by making a ✓ in the appropriate column(s) to which each number belongs:

		N	N_0	$\mathbb{Z}$	$\mathbb{Q}$	$\mathbb{Q}'$	$\mathbb{R}$
(a)	$3\frac{3}{4}$						
(b)	$\sqrt[5]{-32} = -2$						
(c)	-18,5						
(d)	$\sqrt{18}$						
(e)	0						
(f)	$8,\dot{3}$						

- (2) Express each of the following as a common fraction in its simplest form:

(a) $-2, \overline{35}$

(b) 14,45

[illegible]

(3) Consider: $A = \frac{\sqrt{k+6}}{k^2}$

Determine for which value(s) k will A be (i) undefined?
(ii) real?

(i) _____

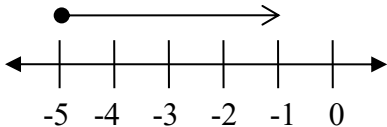
(ii) _____

(4) Consider the following set: $\{18; \sqrt{81}; -\frac{18}{4}; (-4)^2; \frac{0}{-6}; 9, \dot{2}\}$

(a) Write the numbers in numerical order.

(b) Write down the Irrational numbers.

(5) Complete the following table:

	Set builder notation:	Interval notation:	Graphic representation:
(a)	$\{m / 8 \leq m \leq 11 ; m \in \mathbb{R}\}$		
(b)		$k \in (-\infty ; -4]$	
(c)			
(d)	$\{y / y > 0 ; y \in \mathbb{Z}\}$		