

1) a) All the colours in the rainbow
A) Well defined

b) All the points that lie on a straight line
A) Not well defined.

c) All the honest members in the family
A) Not well defined

d) All the consonants of the English alphabet.

A) Well defined

e) All the tall boys of the school

A) Not well defined

f) All the efficient doctors of the hospital

A) Well defined

g) All the hard working teachers in a school

A) well defined.

h) All the prime numbers less than

A) Not well defined

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i) All the letters of the word
Well defined

a) $d \in A$

b) $y \in A$

c) $m \in A$

d) $a \in A$

e) $e \in A$

f) $z \notin A$

3) a) $A = \{x : x \in \mathbb{N} \wedge x \leq 10\}$

b) $B = \{x : x \in \mathbb{N}^2 \wedge x < 5\}$

c) $C = \{x : x \in \mathbb{N} = \{2 + \text{odd}\}\}$

d) $D = \{x : x \in \mathbb{N} = \{2 + \text{even}\}\}$

e) $E = \{x : x \in \mathbb{N} = \{2 < 54 = \text{Even}\}\}$

f) $F = \{x : x \in \mathbb{Z} = \{-11 < 6\}\}$

g) $G = \{0\}$

h) $H = \{N_0\}$