

 $1\frac{1}{4}$ hours

<u>Part I</u>

1. Mention the integral solutions for the following inequalities and represent them on number lines.

i) x > 2 ii) x < 1 iii) $x \le 5$ iv) $x \ge -4$ v) $x \ge 0$

2. Mention the inequality represented in following number lines.

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i)	-4	-3	-2	-1	0	 1	2	ii)	-4	-3	-2	-1	0	1	2	3
	-4	-3	-2	-1	0	1	2		-4	-3	-2	-1	0	1	2	3

3. Represent the set of solutions of following inequalities on a number line.

i)	-2 < x < 2	ii) $-3 < x \le 2$
iii)	$-1 \le x < 3$	iv) $0 \le x < 6$

4. Represent the integral solutions of following inequalities on number lines.

- i) $x + 1 \ge 5$ ii) $x + 3 \le 4$
- ii) $2 + x \le -1$ iv) $x 2 \ge -3$

5. Mention the integral solutions of following inequalities and represent them on number lines.

- i) $4x \ge 12$ ii) $7x \le -14$ iii) $-2x \ge -4$
- iv) $\frac{-3x}{2} < \frac{-9}{4}$ v) $\frac{-2x}{5} > 3$

<u>Part II</u>

1. A student has 30 books. Mother gave him 5 books and father gave him x books. This can be represented in an inequality as $x + 5 \le 30$. Find the solution for the maximum number of books given by father by simplifying the above inequality.

2. 16Men can go on an elevator.4 Men got down from 3^{rd} floor and x number of men got down from 6^{th} floor. This can be shown by an inequality as $x + 4 \le 6$. Find the solution for the maximum number of men on the elevator when it reaches 8^{th} floor.

3. Piyumika says he has lesser number of pens than Hirun and if Hirun has x number of pens it can be shown in an inequality as $4x - 3 \ge 33$.

i) Find the minimum number of pens Hirun can have.

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ii) If Hirun has some Red pens and 2 times of it Blue pens, Find the minimum number of red pens and blue pens he has.

