A: Representing Inequalities Continued

at least: $\geq$

fewer than: $<$

maximum: $\leq$

must exceed: $>$

minimum: $\geq$

* Common terms used to describe inequalities!

Examples:

1. A runner sets goals for himself. Express each goal algebraically.

a) The total running distance, "d", will be a minimum of 10 km.

$d \geq 10$

b) The total time, "t", spent running will be at most 1.5 h.

$t \leq 1.5$

c) The number of days, "r", run weekly will be more than 3.

* There are only 7 days in a week. (maximum of)

$r > 3$ and $r \leq 7$

2. A student wants to beat their previous test scores. The number line shows the scores she would need.

a) Write a statement and an algebraic expression to represent this.

STATEMENT: The student needs to score higher than 70 in order to beat her previous score.

EXPRESSION: $s > 70$ and $s \leq 100$

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