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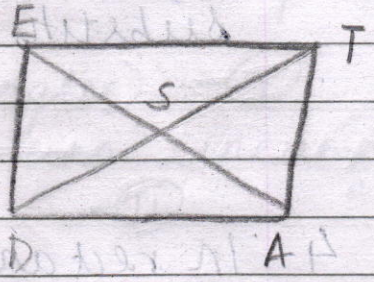
Name : Divija Nanavati Date : 7/11/17.
Class : IX Board : CBSE Batch : Samarth Course Code : Samarth
Subject : Mathematics Roll No. : 15761 Test ID : PT-4M
Marks Obtained : 29½ Max. Marks : 30
Centre : Vasna Invigilator Sign. :

★ Section A

1. In rectangle DATE,
$AE = \frac{1}{2} TD$ (diagonals of a rectangle are equal) (1)



$40 = ST + SD$
$40 = ST + ST$ ($ST = SD$, diagonals of a rectangle bisect each other)
$\therefore 40 = 2(x+5)$
$40 = 2x + 10$, $2x = 30$, $x = 15$

2. mid-point → m.
upper class limit → l
Let lower class limit be x (1)
$m = \frac{l+x}{2}$, $2m = l + x$
$x = 2m - l$

★ Section-B

3. Given :- ABCD is a ||gm, AO & BO bisect ∠A & ∠B, respectively.
T.P :- $\angle AOB = 90°$