## Answer on Question \#45258 - Math - Geometry <br> Problem:

Find the value of the variable and ST if S is between R and T $\mathrm{RS}=7 \mathrm{a}, \mathrm{ST}=12 \mathrm{a}, \mathrm{RT}=76$

## Solution:

Let's look at Figure


As we know
$\mathrm{RT}=\mathrm{RS}+\mathrm{ST}=7 \mathrm{a}+12 \mathrm{a}=19 \mathrm{a}$
And RT=76
That's why RT =19a=76 $\Rightarrow \quad a=76 / 19=4$
$\mathrm{ST}=12 \mathrm{a}=12 * 4=48$

## Answer:

$a=4$
$\mathrm{ST}=48$

