Answer on Question #71746 – Math – Algebra
Question

1. Four students were given an algebra exam and it took the first two 23 minutes while the next two 25 minutes to finish the exam. If a 5th student took the same exam and the computed mean speed of all five students is 22 minutes, how fast did the last student finish the exam?

Solution

We have times in minutes for each student:
$$t1=23, t2=23, t3=25, t4=25, t5 = x.$$
The mean speed is calculated as
$$(t1+t2+t3+t4+t5) / 5$$
and equals
$$22.$$
So we have an equation:
$$(23+23+25+25+x)/5 = 22$$
$$96+x = 22*5$$
$$x = 110-96$$
$$x = 14$$

Answer: 14 minutes.