Answer on Question #84536 – Math – Algebra

Question

There were 75 runners to start a race. In the first half of the race, 2/5 of them dropped out. In the second half of the race, 4/5 of the remaining runners dropped out. How many runners finished the race?

Solution

Number of runners after first half of the race:

$$75 * \left(1 - \frac{2}{5}\right) = 75 * \frac{3}{5} = 45$$

Number of runners after second half of the race:

$$45 * \left(1 - \frac{4}{5}\right) = 45 * \frac{1}{5} = 9$$

Answer: 9 runners finished the race.