

Here is the formula to work out the corrected time from the measured one for the Physics Relay.

In order to be a valid team for the age related prize the total age of the team must be greater than 132 years.

For each runner calculate effective age  $E$

$$\begin{aligned} E &= 33, \text{if age } < 33 \\ E &= \text{age if age } \geq 33 \end{aligned}$$

Work out mean  $E$  for the team ( $\hat{E} = \frac{\sum E}{4}$ )  
 $N_w$  is the number of women in the team

$$\text{Corrected time} = \text{actual time} \times (1 - 0.1 \times (N_w/4)) - 8.6 \times (\hat{E} - 33)$$