

Algebra I Packet # 5

Answer Key

a. $y = 0.111x^2 - 8.1x + 299$

Substitute your time in for x .

$$y = 0.111(41)^2 - 8.1(41) + 299$$

$$y = 153.5 \text{ or } 154 \text{ minutes.}$$

Based on the model a 41 year old runner would complete the Marine Corp Marathon in 154 minutes.

b). It would take a 83 year old runner 391.4 minutes to complete the marathon.

c). Based on the model, it would take a 50 year old runner 171 minutes to complete the marathon. There is hope for Mrs Flythe. 😊