

Marathon Mathematics

Home Link 7-6

NAME _____

DATE _____

TIME _____



In 2006, Deena Kastpor set the U.S. women's record for both the half marathon (13.1 miles) and the full marathon (26.2 miles).

Her time for the half marathon was 1 hour 7 minutes 34 seconds.

Her time for the full marathon was 2 hours 19 minutes 36 seconds.

① Compare her rates (seconds per mile) for the two races.

a. Which rate was faster? _____

b. How much faster is her rate for that race?

② If Deena could run a full marathon at her half-marathon pace, about how long would it take her to run the full marathon?

③ Which record do you think would be easier to break: half marathon or full marathon? Explain.

Practice Find the value of x that makes each number sentence true.

④ $6x = 54$ _____ ⑤ $x - 14 = 152$ _____ ⑥ $300 = x + 199$ _____