A student set up an experiment to investigate the relationship between the temperature of an acid and the rate of carbon dioxide production when reacted with a base. In each trial the student timed how long in seconds it took to produce 100 mL of carbon dioxide in a gas syringe. The results are shown below.

Temperature of acid (°C)	Time taken to produce 100 mL of carbon dioxide (s)
30	91
40	65
50	64
60	21

11.   Which of the following would be classified as a random error?

      (a)   judging when 100 mL of carbon dioxide is produced
      (b)   heating the acid in a water bath
      (c)   using the same balance to weigh out the base
      (d)   an error in the stopwatch calibration