Interpreting Reaction-Time Data

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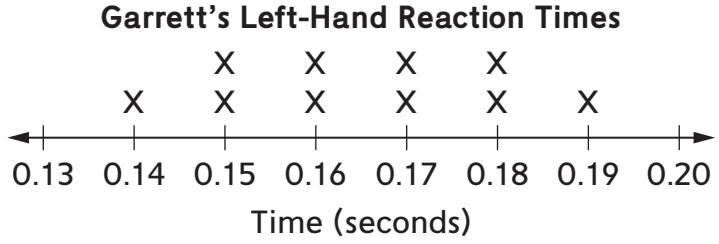
NAME DATE TIME

Garrett tried the Grab-It Gauge experiment with his left hand. He recorded his results on the line plot below. Use the data to answer the questions.

SRB 121, 131, 247–248



1. Which time(s) came up most often for Garrett? 0.15, 0.16, 0.17, 0.18 sec

2. Write Garrett's reaction times in order from fastest to slowest.
   0.14, 0.15, 0.15, 0.16, 0.16, 0.17, 0.17, 0.18, 0.18, 0.19

3. What is the difference between Garrett's fastest time and his slowest time?
   0.05 sec

4. What is Garrett's evened-out reaction time? Record your calculations.
   Expression: Sample answer: (0.14 + 0.15 + 0.15 + 0.16 + 0.16 + 0.17 + 0.17 + 0.18 + 0.18 + 0.19) ÷ 10
   Evened-out reaction time: 0.165 sec

5. What would you say is a typical reaction time for Garrett's left hand? Why?
   Sample answer: I would say that 0.165 is a typical reaction time. The evened-out time is the best time, since there is not a single time that occurred more than the others.

Practice

Subtract. Show your work on the back of this page. Estimates vary.

6. 5.63 − 2.19 = 3.44
   Estimate: _____

7. 44.12 − 3.85 = 40.27
   Estimate: _____

 5.NBT.3, 5.NBT.3b, 5.NBT.7, SMP4