

Name: _____ Date: _____ Period: _____

Biology: Reaction Time Lab

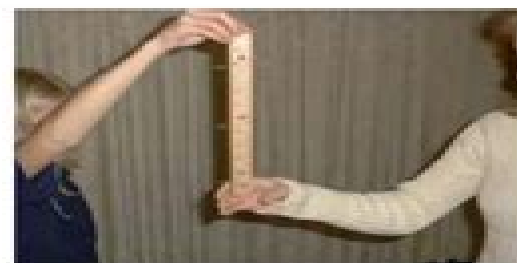
Are you a piano player or a video gamer? Then you might have a quick reaction time that can come in handy while playing sports. Reaction time is the time between a stimulus and your response. The stimulus is processed by your nervous system before you are able to react, and the time lag is your reaction time. Stimuli could be visual, auditory, tactile (touch), olfactory, or gustatory (taste). In this experiment you will be measuring your reaction time when presented with visual stimulation. You will also test the effects of temperature on your reaction time. The only equipment you will need will be a meter stick. Because the distance an object falls is a function of time, you can measure the distance the meter stick drops and use this to calculate your reaction time.

Problem: How does cold temperature affect reaction times?

Hypothesis: _____

Control Group:

1. Have partner #2 hold the ruler by the 30-cm end and dangling the 0-cm end of the ruler so that it is just even with the top of partner #1's thumb and index finger. (see picture)
2. Without any warning, partner #2 releases the ruler and partner #1 tries to catch it as quickly as possible.
3. Record the distance (top of finger) by checking to see how many cm the ruler fell.



Control Data

	1	2	3	4	5
Distance fell (cm)					
Reaction time (seconds)					

average time = _____

Experimental Data

	1	2	3	4	5
Distance fell (cm)					
Reaction time (seconds)					

average time = _____

How to Calculate Your Reaction Times:

We are going to use some physics to calculate how fast you were able to react to the falling ruler. The algorithm to calculate reaction time is $t = \sqrt{2d/a}$

t = reaction time

d = distance ruler fell in meters

a = acceleration due to gravity = 9.8m/s^2

For example, if a student caught the ruler after 14cm, here is how you would calculate the reaction time. Because the acceleration due to gravity is in the unit of "meters/sec²" this means you must convert your centimeter distance into meters. So a ruler falling 14cm would be the same as .14m.

$$t = \sqrt{2 \times .14\text{m} / 9.8\text{m/s}^2}$$

$$t = \sqrt{.28\text{m} / 9.8\text{m/s}^2}$$

$$t = \sqrt{.0285\text{s}^2}$$

$$t = .169\text{s (round to the nearest thousandth)}$$

Calculate your reaction times and fill in the data tables above.

Answer Key For Reaction Time Lab

M Mark



Answer Key For Reaction Time Lab:

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wildflowers; it was a beautiful sight. 5. As ... Commas in Compound sentences Flashcards Study with Quizlet and memorize flashcards containing terms like coordinating conjunctions, clause, phrase and more. Struggling with commas in compound sentences ... I noticed I'm having a ton of trouble with commas in very similar types of sentences. Here are some examples:. Commas in Compound Sentences Learn more about commas in compound sentences. Our lessons offer detailed explanations along with exercises to test your knowledge. Introduction to Statistical Quality Control (7th Edition) ... Access Introduction to Statistical Quality Control 7th Edition solutions now. Our solutions are written by Chegg experts so you can be assured of the ... Student Solutions Manual... by Douglas C. Montgomery Student Solutions Manual to accompany Introduction to Statistical Quality Control 7th edition by Montgomery, Douglas C. (2013) Paperback · Buy New. \$583.99\$583. Solution Manual For Introduction To Statistical Quality ... Solution Manual for Introduction to Statistical Quality Control 7th ed - Douglas Montgomery - Read online for free. Solutions for Introduction to Statistical Quality Control Student Solutions Manual to accompany Introduction to Statistical Quality Control. 7th Edition. ISBN: 9781118573594. EBK INTRODUCTION TO STATISTICAL QUALITY. Download !PDF Student Solutions Manual to accompany ... May 21, 2020 — Download !PDF Student Solutions Manual to accompany Introduction to Statistical Quality Control, 7e Full Pages. pdf download Student Solutions ... Introduction to Statistical Quality Control 7th Ed by ... SOLUTIONS MANUAL: Introduction to Statistical Quality Control 7th Ed by Montgomery The Instructor Solutions manual is available in PDF format for the ... Solution Manual Statistical Quality Control by Douglas c ... Montgomery. Chapter 6 Statistical Quality Control, 7th Edition by Douglas C. Montgomery. Copyright (c) 2012 John Wiley & Sons, Inc. Introduction To Statistical Quality Control 7th Edition Access Introduction to Statistical Quality Control 7th Edition Chapter 13 solutions now. Our solutions are written by Chegg experts so you can be assured of ... Statistical Quality Control - 7th Edition - Solutions and ... Our resource for Statistical Quality Control includes answers to chapter exercises, as well as detailed information to walk you through the process step by step ... Student Solutions Manual... by Montgomery, Douglas C. This is the Student Solutions Manual to accompany Introduction to Statistical Quality Control, 7th Edition. The Seventh Edition of Introduction to ... Grade 6 FSA Mathematics Practice Test Questions The purpose of these practice test materials is to orient teachers and students to the types of questions on paper-based FSA Mathematics tests. By using. Grade 6 FSA ELA Reading Practice Test Questions The purpose of these practice test materials is to orient teachers and students to the types of questions on paper-based FSA ELA Reading tests. By using. Grade 6 FSA Mathematics Practice Test Answer Key The Grade 6 FSA Mathematics Practice Test Answer Key provides the correct response(s) for each item on the practice test. The practice questions and. 2019 FSA 6th Grade Review Practice Test 1 2019 FSA 6th Grade Review. Practice Test. 1. Page 2. 2019 FSA 6th Grade Review. Practice Test. 2. Page 3. 2019 FSA 6th Grade Review. Practice Test. FSA - Grade 6 Math: Test Prep & Practice Final Exam Test and improve your knowledge of FSA - Grade 6 Math: Test Prep & Practice with fun multiple choice exams you can take online with Study.com. Grade 6

Mathematics Questions. Yes. No. Is the proportion of the punch that is cranberry juice the same in each of Chris's recipes given in his table? Is the proportion of the. FSA - Grade 6 Math: Test Prep & Practice Course FSA Grade 6 Mathematics Exam Breakdown ; Expressions and Equations, 30%, 18-19 questions ; Geometry, 15%, 9-10 questions. Grade 6 FSA ELA Writing Practice Test The purpose of these practice test materials is to orient teachers and students to the types of passages and prompts on FSA ELA Writing tests. FAST Practice Test and Sample Questions - Florida ... FAST Practice Test & Sample Questions for Grades 3-8 and High School. Check out Lumos Florida State Assessment Practice resources for Grades 3 to 8 students!