

Acceleration Calculations **Answers**

A Formula One circuit is split into three parts called sectors. The time it takes each driver to complete each sector is recorded.

The table below shows the fastest sector times for Ferrari drivers Charles Leclerc and Carlos Sainz in the qualifying session for the 2022 Bahrain Grand Prix.

- Complete the final column of the table by calculating the average speed of both drivers in each sector. Use the equation:

$$\text{average speed (m/s)} = \text{distance travelled (m)} \div \text{time taken (s)}$$

Write the values to four significant figures.

Driver	Sector	Sector Length (m)	Sector Time (s)	Average Speed (m/s)
Charles Leclerc	1	1725	29.12	59.24
	2	2334	38.70	60.31
	3	1353	22.71	59.58
Carlos Sainz	1	1725	29.04	59.40
	2	2334	38.84	60.09
	3	1353	22.71	59.58

At the start of their qualifying lap, both drivers were stationary.

- What was their speed at this point?
Tick **one** box only.

- ☒ 0m/s
☐ 0m/s²
☐ 10m/s
☐ 10m/s²

Answers Acceleration Calculations Instructional Fair

**Cape of Good Hope (South Africa).
Education Department**



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The Science of Musical Sound William Ralph Bennett Jr., 2018-09-04 This textbook is a product of William Bennett's work in developing and teaching a course on the physics of music at Yale University to a diverse audience of musicians and science students in the same class. The book is a culmination of over a decade of teaching the course and weaves together historical descriptions of the physical phenomena with the author's clear interpretations of the most important aspects of the science of music and musical instruments. Many of the historical examples are not found in any other textbook available on the market. As the co-inventor of the Helium Neon laser, Prof. Bennett's knowledge of physics was world-class. As a professor at one of the most prestigious liberal arts universities in the world, his appreciation for culture and humanities shines through. The book covers the basics of oscillations, waves, and the analysis techniques necessary for understanding how musical instruments work. All types of stringed instruments, pipe organs, and the human voice are covered in this volume. A second volume covers the remaining families of musical instruments as well as selected other topics. Readers without a background in acoustics will enjoy learning the physics of the Science of Musical Sound from a preeminent scientist of the 20th century. Those well-versed in acoustics will discover wonderful illustrations and photographs depicting familiar concepts in new and enlightening ways.

Principles of Physics David Halliday, Jearl Walker, Robert Resnick, 2023 Renowned for its interactive focus on conceptual understanding, Halliday and Resnick's *Principles of Physics* 12th edition is an industry-leading resource in physics teaching with expansive, insightful, and accessible treatments of a wide variety of subjects. Focusing on several contemporary areas of research and a wide array of tools that support students' active learning, this book guides students through the process of learning how to effectively read scientific material, identify fundamental concepts, reason through scientific questions, and solve quantitative problems. This International Adaptation of the twelfth edition is built to be a learning center with practice opportunities, simulations, and videos. Numerous practice and assessment questions are available to ensure that students understand the problem-solving processes behind key concepts and understand their mistakes while working through problems.

The Education Gazette Cape of Good Hope (South Africa). Education Department, 1973 *The Education Gazette of the Province of the Cape of Good Hope* Cape of Good Hope (South Africa). Education Department, 1973-05 *The Education Gazette of the Province of the Cape of Good Hope*, 1973

Enhancing the Art & Science of Teaching With Technology Sonny Magana, Robert J. Marzano, 2011-07-01 Successfully leverage technology to enhance classroom practices with this practical resource. The authors demonstrate the importance of educational technology, which is quickly becoming an essential component in effective teaching. Included are over 100 organized classroom strategies, vignettes that show each section's strategies in action, and a glossary of classroom-relevant technology terms. Key research is summarized and translated into classroom recommendations. *Teaching and Learning Mathematics* Linda Jensen Sheffield, Douglas E. Cruikshank, 2004-03-29 Help students make sense of mathematics. Rather than merely discussing how to improve students

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with which is Incorporated the Practical Teacher's Art Monthly Joseph Hughes,1883 **The Engineer** ,1885

Physics Eugene Hecht,2003 Student text An Introduction to Physics Measurement The Language of Physics Kinematics Speed Velocity Speed Velocity Relative Motion Kinematics Acceleration The Concept of Acceleration Uniformly Accelerated Motion Free Fall Newton s Three Laws The Three Laws Dynamics Statics Centripetal Force Gravity Centripetal Force Gravity The Cosmic Force Energy The Transfer of Energy Mechanical Energy Conservation of Mechanical Energy Momentum Collisions Linear Momentum Rotational Motion The Kinematics of Rotation Rotational Equilibrium The Dynamics of Rotation Solids Liquids Gases Atoms Matter Fluid Statics Fluid Dynamics Elasticity Oscillations Elasticity Harmonic Motion Waves Sound Mechanical Waves Sound Thermal Properties of Matter Temperature Thermal Expansion The Gas Laws Heat Thermal Energy Thermal Energy Change of State The Transfer of Thermal Energy Thermodynamics The First Law of Thermodynamics Cyclic Processes Engines Refrigerators The Second Law of Thermodynamics Electrostatics Forces Electromagnetic Charge The Electric Force The Electric Field Electrostatics Energy Electric Potential Capacitance Direct Current Flowing Electricity Resistance Circuits Circuit Principles Network Analysis Optional Magnetism Magnets the Magnetic Field Electrodynamics Magnetic Force Electromagnetic Induction Electromagnetically Induced emf Generators Self Induction AC Electronics Alternating Current R L C AC Networks Optional Electronics Optional Radiant Energy Light The Nature of Light The Electromagnetic Photon Spectrum The Propagation of Light Scattering Scattering Reflection Refraction The World of Color Geometrical Optics Instruments Lenses Mirrors Physical Optics Polarization Interference Diffraction Special Relativity Before the Special Theory The Special Theory of Relativity Relativistic Dynamics The Origins of Modern Physics Subatomic Particles The Nuclear Atom The Evolution of Quantum Theory The Old Quantum Theory Atomic Theory Quantum Mechanics The Conceptual Basis of Quantum Mechanics Quantum Physics Nuclear Physics Nuclear Structure Nuclear Transformation High Energy Physics Elementary Particles Quantum Field Theory A Brief Mathematical Review Algebra Geometry Trigonometry Vectors Dimensions

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