

Activity A:
Estimating speed

Get the Game ready

- Select the SAFARI ADVENTURE tab.
- Remove all animals from the screen.
- A calculator is recommended for this activity.



Question: How do you measure speed?

1. **Run/Stop:** Record an animal running. Then switch to the PLAYBACK tab and watch your recording. Which animal did you record? _____ recorded the lion _____.

2. **Measure:** Click **Restart** (RE). Use **Advance frame** (RF) to advance the recording one second. Mark the animal's position with an arrow (→) and repeat. Estimate the distance the animal traveled in one second. (Note: The trees in the background are 5 meters apart.)

- A. About how far did the animal travel in 1 second? _____ meter _____.
- B. How did you make your estimate? _____ estimated the distance traveled by using the trees as a reference. _____

3. **Calculate:** The distance an animal travels each second is its speed. What is the estimated speed of this animal? _____ meter per second _____ (Units are meters per second, or m/s.)

4. **Measure:** You can get a more accurate estimate of distance and time using these steps:
 - Use the **Time slider** to position the animal so that its nose is even with the first tree. Record the current time in the table below as **Time 1**.
 - Position the animal so that its nose is even with the last tree and record **Time 2**.
 - Subtract the first time from the second to get the **Time difference**.
 - Record the **Distance** from the first tree to the last. (The trees are 5 meters apart.)

Time 1	Time 2	Time difference (s)	Distance (m)
0.7s	12.7s	12s	15m

Answer Key To Measuring Motion Packet

Disha Experts

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'Disha Experts' text.

Answer Key To Measuring Motion Packet:

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Bohmian Mechanics, Open Quantum Systems and

Continuous Measurements Antonio B. Nassar,Salvador Miret-Artés,2017-03-14 This book shows how Bohmian mechanics overcomes the need for a measurement postulate involving wave function collapse The measuring process plays a very important role in quantum mechanics It has been widely analyzed within the Copenhagen approach through the Born and von Neumann postulates with later extension due to L ders In contrast much less effort has been invested in the measurement theory within the Bohmian mechanics framework The continuous measurement sharp and fuzzy or strong and weak problem is considered here in this framework The authors begin by generalizing the so called Mensky approach which is based on restricted path integral through quantum corridors The measuring system is then considered to be an open quantum system following a stochastic Schr dinger equation Quantum stochastic trajectories in the Bohmian sense and their role in basic quantum processes are discussed in detail The decoherence process is thereby described in terms of classical trajectories issuing from the violation of the noncrossing rule of quantum trajectories

Frequency-Resolved Optical Gating: The Measurement of Ultrashort Laser Pulses Rick Trebino,2012-12-06 The Frequency Resolved Optical Gating FROG technique has revolutionized our ability to measure and understand ultrashort laser pulses This book contains everything you need to know to measure even the shortest weakest or most complex ultrashort laser pulses Whether you re an undergrad or an advanced researcher you ll find easy to understand descriptions of all the key ideas behind all the FROG techniques all the practical details of pulse measurement and many new directions of research This book is not like any other scientific book It is a lively discussion of the basic concepts It is an advanced treatment of research level issues

Connected Health in Smart Cities Abdulmotaleb El Saddik,M. Shamim Hossain,Burak Kantarci,2019-12-03 This book reports on the theoretical foundations fundamental applications and latest advances in various aspects of connected services for health information systems The twelve chapters highlight state of the art approaches methodologies and systems for the design development deployment and innovative use of multisensory systems and tools for health management in smart city ecosystems They exploit technologies like deep learning artificial intelligence augmented and virtual reality cyber physical systems and sensor networks Presenting the latest developments identifying remaining challenges and outlining future research directions for sensing computing communications and security aspects of connected health systems the book will mainly appeal to academic and industrial researchers in the areas of health information systems smart cities and augmented reality

The Dock and Harbour Authority ,1986

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