

1. An airplane diving at an angle of 36.9° with the horizontal drops a bag of sand from an altitude of 800 m. The bag is observed to strike the ground 5 s after its release.

- What is the speed of the plane?
- How far does the bag travel horizontally during its fall?
- What is its velocity just before it strikes the ground?



Vert

$$\begin{aligned} V_i &= \\ V_f &= \\ \Delta y &= 800\text{m} \\ a_y &= 9.8 \frac{\text{m}}{\text{s}^2} \\ t &= 5\text{s} \end{aligned}$$

$$\Delta y = V_i t + \frac{1}{2} a t^2 \Rightarrow$$

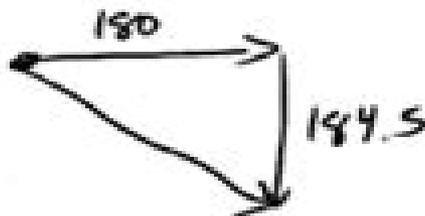
$$\begin{aligned} V_i &= \frac{\Delta y - \frac{1}{2} a t^2}{t} = \frac{800 - \frac{1}{2}(9.8)(25)}{5} \\ &= 135.5 \frac{\text{m}}{\text{s}} \end{aligned}$$



a) $\sin \theta = \frac{\text{opp}}{\text{hyp}} \Rightarrow \text{hyp} = \frac{\text{opp}}{\sin \theta} = \frac{135.5 \frac{\text{m}}{\text{s}}}{\sin(36.9^\circ)} = \boxed{226 \frac{\text{m}}{\text{s}}}$

b) Horiz
 $V_{ix} = 226 \frac{\text{m}}{\text{s}} \cos(36.9^\circ) = 180 \frac{\text{m}}{\text{s}}$
 $\Delta x = V_x t = (180 \frac{\text{m}}{\text{s}})(5\text{s}) = \boxed{902\text{m}}$

c) $V_{fx} = 180 \frac{\text{m}}{\text{s}}$ $V_{fy} = V_{iy} + a_y t = 135.5 \frac{\text{m}}{\text{s}} + 9.8(5) = 184.5$



$$V_f = \sqrt{180^2 + 184.5^2} = \boxed{258 \frac{\text{m}}{\text{s}}}$$

Physics Kinematics Problems And Solutions

Mark Steyvers



Physics Kinematics Problems And Solutions:

Diagrammatic Representation and Reasoning Michael Anderson, Bernd Meyer, Patrick Olivier, 2011-06-27 Diagrams are essential in most fields of human activity There is substantial interest in diagrams and their use in many academic disciplines for the potential benefits they may confer on a wide range of tasks Are we now in a position to claim that we have a science of diagrams that is a science which takes the nature of diagrams and their use as the central phenomena of interest If we have a science of diagrams it is certainly constituted from multiple disciplines including cognitive science psychology artificial intelligence logic mathematics and others If there is a science of diagrams then like other sciences there is an applications or engineering discipline that exists alongside the science Applications and engineering provide tests of the theories and principles discovered by the science and extend the scope of the phenomena to be studied by generating new uses of diagrams new media for presenting diagrams or novel classes of diagram This applications and engineering side of the science of diagrams also comprises multiple disciplines including education architecture computer science mathematics human computer interaction knowledge acquisition graphic design engineering history of science statistics medicine biology and others [Cognitive and Metacognitive Problem-Solving Strategies in Post-16 Physics](#) Ronald Mazorodze, Michael J. Reiss, 2019-09-20 This book reports on a study on physics problem solving in real classrooms situations Problem solving plays a pivotal role in the physics curriculum at all levels However physics students performance in problem solving all too often remains limited to basic routine problems with evidence of poor performance in solving problems that go beyond equation retrieval and substitution Adopting an action research methodology the study bridges the research practical divide by explicitly teaching physics problem solving strategies through collaborative group problem solving sessions embedded within the curriculum Data were collected using external assessments and video recordings of individual and collaborative group problem solving sessions by 16-18 year olds The analysis revealed a positive shift in the students problem solving patterns both at group and individual level Students demonstrated a deliberate well planned deployment of the taught strategies The marked positive shifts in collaborative competences cognitive competences metacognitive processing and increased self efficacy are positively correlated with attainment in problem solving in physics However this shift proved to be due to different mechanisms triggered in the different students **Teaching and Learning Mathematical Problem Solving** Edward A. Silver, 2013-04-03 A provocative collection of papers containing comprehensive reviews of previous research teaching techniques and pointers for direction of future study Provides both a comprehensive assessment of the latest research on mathematical problem solving with special emphasis on its teaching and an attempt to increase communication across the active disciplines in this area [Designing for the User Experience in Learning Systems](#) Evangelos Kapros, Maria Koutsombogera, 2018-09-25 While the focus of the UX research and design discipline and the Learning Sciences and instructional design disciplines is often similar and almost always tangential there seems to exist a

gap i e a lack of communication between the two fields Not much has been said about how UX Design can work hand in hand with instructional design to advance learning The goal of this book is to bridge this gap by presenting work that cuts through both fields To illustrate this gap in more detail we provide a combined view of UX Research and Design Educational Technology While the traditional view has perceived the Learning Experience Design as a field of Instructional Design we will highlight its connection with UX an aspect that has become increasingly relevant Our focus on user experience research and design has a unique emphasis on the human learning experience we strongly believe that in learning technology the technological part is only mediating the learning experience and we do not focus on technological advancements per se as we believe they are not the solution in themselves to the problems that education is facing This book aims to lay out the challenges and opportunities in this field and highlight them through research presented in the various chapters Thus it presents a unique opportunity to represent areas of learning technology that go very far beyond the MOOC and the classroom technology The book provides an outstanding overview and insights in the area and it aims to serve as a significant and valuable source for learning researchers and practitioners The chapter User requirements when designing learning e content interaction for all is available open access under a CC BY 4 0 license at link springer com

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