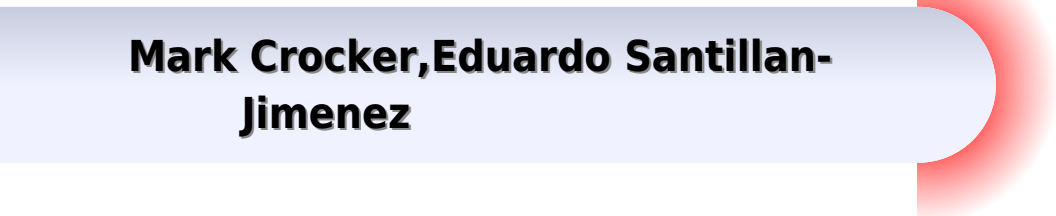


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3	(a) (i) 1. (loss of P.E. =) mgh OR $92 \times 10 \times 1500$ $1.38 \times 10^6 \text{ J}$ correct use of mgh with $h = 500$ or 2000 gains 1 mark only (ii) 2. (K.E. =) $\frac{1}{2}mv^2$ OR $\frac{1}{2} \times 92 \times 52^2$ $1.244 \times 10^5 \text{ J}$ at least 2 sig. figs (a) (ii) difference is due to: (work done in overcoming) air resistance/drag OR energy converted to/lost as heat (by air resistance/drag) (b) (i) increases (ii) 920 N		C1 A1 C1 A1 B1 B1 B1 [Total 7]
4	(a) (i) mention of vacuum OR glass is a poor conductor OR vacuum/gap between walls has no molecules/atoms/particles (ii) surface/silver (of walls) is good reflector/poor absorber (of radiation) surface/silver (of walls) is poor emitter (of radiation) (b) add a stopper/lid/bung/cover/top to reduce/prevent (loss of heat by) convection/ conduction/radiation/evaporation OR to prevent steam/hot vapour leaving made of insulator OR example of insulator to reduce/prevent (loss of heat by) convection/radiation/evaporation OR to prevent steam/hot air leaving		B1 B1 B1 M1 B1 B1 [Total 6]
5	(a) (i) and (ii) marked together to maximum of 3 marks (i) molecules escape/leave the liquid/form gas or vapour (ii) evaporation OR heat/(thermal) energy needed for evaporation leaves sweat cooler fast(er) molecules/high(er) energy molecules escape OR slow(er) molecules left behind heat flows from body to warm the sweat (so body cools) (b) (i) ($Q =$) $mc\Delta\theta$ OR mcT OR $60 \times 4000 \times 0.50$ $1.2 \times 10^5 \text{ J}$ / 120 kJ (ii) $Q = mL$ in any form OR ($m =$) Q/L OR either with numbers ($m = 1.2 \times 10^5 / 2.4 \times 10^5 =$) 0.05 kg e.c.f from (b)(i)		B1 B1 B1 B1 C1 A1 C1 A1 [Total 7]

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**Mark Crocker, Eduardo Santillan-
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insights on the most important aspects of biomass upgrading and their various types Veterinary Pharmacology and Therapeutics Jim E. Riviere, Mark G. Papich, 2017-11-29 Veterinary Pharmacology and Therapeutics Tenth Edition is a fully updated and revised version of the gold standard reference on the use of drug therapy in all major veterinary species Provides current detailed information on using drug therapies in all major domestic animal species Organized logically by drug class and treatment indication with exhaustive information on the rational use of drugs in veterinary medicine Includes extensive tables of pharmacokinetic data products available and dosage regimens Adds new chapters on pharmaceuticals ophthalmic pharmacology food animal pharmacology and aquatic animal pharmacology Includes access to a companion website with the figures from the book in PowerPoint The Art of the Con Anthony M. Amore, 2015-07-14 Must reading for any true crime fan a diverse colorful crew of art gallery grifters and scammers Highly recommended Howie Carr New York Times bestselling author Art scams are today so numerous that the specter of a lawsuit arising from a mistaken attribution has scared a number of experts away from the business of authentication and forgery and with good reason Art scams are increasingly convincing and involve incredible sums of money The cons perpetrated by unscrupulous art dealers and their accomplices are proportionately elaborate Anthony M Amore s The Art of the Con tells the stories of some of history s most notorious yet untold cons They involve stolen art hidden for decades elaborate ruses that involve the Nazis and allegedly plundered art the theft of a conceptual prototype from a well known artist by his assistant to be used later to create copies the use of online and television auction sites to scam buyers out of millions and other confidence scams incredible not only for their boldness but more so because they actually worked Using interviews and newly released court documents The Art of the Con will also take the reader into the investigations that led to the capture of the con men who oftentimes return back to the world of crime For some it s an irresistible urge because their innocent dupes all share something in common they want to believe An engrossing read about brazen artful scams Kirkus Reviews A riveting fast moving account of shameless fraudsters who wreak havoc on the art world A must read Brian T Kelly former Assistant United States Attorney

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