

Question Number	Scheme	Marks
1.(a)	$S_d = 13833 - \frac{"1960" \times 33.6}{8} \quad \text{or} \quad 13833 - \frac{65856}{8} \quad (\text{But } 13833 - 8232 \text{ is M0})$ $= \underline{5601} \quad (*)$	M1 A1 cso (2)
(b)	w, since the number of wiggles depends on the distance <u>or</u> w depends on d	B1 (1)
(c)	$r = \frac{5601}{\sqrt{394600 \times 80.481}}, = 0.99389...$	awrt <u>0.994</u> M1, A1 (2)
(d)	$b = \frac{5601}{394600}, = 0.014194....$ $a = \frac{33.6}{8} - "0.01419..." \times \frac{"1960"}{8} = 4.2 - "0.01419..." \times 245 [= 0.72244..]$	(awrt 0.014) M1, A1 M1 A1 (4)
(e)	(i) $[0.722 + 0.0142 \times 350 =]$ (ii) Reliable since 350 m is in the range of the data	awrt: <u>5.7</u> or <u>5.6</u> B1 B1 (2)
	Notes	[11 marks]
(a)	M1 for clear attempt to find Σd and use in a correct formula. Accept $1300 < \Sigma d < 2500$ For the M1 we can condone a single slip e.g. using 1383 instead of 13833 etc A1cso for correct Σd and 5601 only. Must see the formula and so have scored M1	
(b)	B1 Must select w (or wiggles) and reason based on the idea that w is dependent on d Allow w "changes according to"/ "is determined/affected by" Must mention w and d B0 for "w is measured" or "d is explanatory/indep't" or "w can't be controlled" or "w responds to d"	
(c)	M1 for a correct expression (Allow ft of their incorrect S_{dw}) A1 for awrt 0.994 (Answer only 2/2) [Answer only of 0.99 scores M1A0]	
(d)	1 st M1 for a correct expression for b. (Allow ft of their incorrect S_{dw}) 1 st A1 for awrt 0.014 No fractions. [Answer only 2/2] Can be given at final equation. [Must come from correct formula <u>not</u> gradient of line from e.g. (650, 9.555) to (30, 0.725)] 2 nd M1 for a correct method for a. Follow through their value of b and their Σd 2 nd A1 for a correct equation for w and d with a = awrt 0.722 and b = awrt 0.0142 No fractions Equation in x and y is A0 Answer only 4/4	
(e)	1 st B1 for awrt 5.7 or awrt 5.6 2 nd B1 for a reason citing 350 (m) or mentioning d is in the range of the data and stating reliable. Allow "Interpolation (or not extrapolation) therefore reliable". Saying "5.7 (or w or just "it") is in the range" is B0 "accurate" instead of "reliable" is B0 "strong correlation" (without mention of interpolation o.e.) is B0 Apply ISW if a correct comment is seen.	

Internation A Level Edexcel Maths Papers S1

Janet Crawshaw,Joan Chambers



International A Level Edexcel Maths Papers S1:

(Free version) *Abacus & Mental Arithmetic Course Book* Mathewmatician, All four arithmetic examples and exercises are provided with detailed and smooth versions of video teaching It is suitable to Children with strong self learning ability Parents who train their children on their own Kindergarten or Primary school teacher Students majoring in early childhood education or elementary education in universities and colleges Those who are interested in becoming an abacus and mental arithmetic teacher or are interested in running an abacus and mental arithmetic class

The British National Bibliography Arthur James Wells,2000 *A-level Mathematics for Edexcel Statistics 1* ,2012 **A-Level Mathematics for Edexcel Statistics 1** CGP Books,Richard Parsons,2012-05-01 AS A Level Maths for Edexcel Statistics 1 Student Book

Pearson Edexcel International A Level Greg Attwood,Joe Skrakowski,Harry Smith,2018 Developed for the new International A Level specification these new resources are specifically designed for international students with a strong focus on progression recognition and transferable skills allowing learning in a local context to a global standard Recognised by universities worldwide and fully comparable to UK reformed GCE A levels Supports a modular approach in line with the specification Appropriate international content puts learning in a real world context to a global standard making it engaging and relevant for all learners Reviewed by a language specialist to ensure materials are written in a clear and accessible style The embedded transferable skills needed for progression to higher education and employment are signposted so students understand what skills they are developing and therefore go on to use these skills more effectively in the future Exam practice provides opportunities to assess understanding and progress so students can make the best progress they can

Nelson Mathematics for Cambridge International A Level: Probability and Statistics 1 Janet Crawshaw,Joan Chambers,2016-03-10 The Nelson Mathematics for Cambridge International AS A Level series is tailored to the needs of A AS level students of the latest 9709 syllabus Developed by a team of experienced examiners and international authors it provides comprehensive coverage for this syllabus and effective preparation for the Cambridge exams Nelson Probability and Statistics 1 for Cambridge International A Level is for students taking the S1 exam paper The text provides introductions to topics and step by step worked examples to aid students in their understanding of the course material Mixed exercises with more detailed questions similar to those found in the actual examinations test the knowledge of content covered in previous chapters helping students to apply knowledge In addition practice exam papers provide students with opportunities for effective exam preparation and so help them reach their full potential

Pearson Edexcel International A Level Mathematics Greg Attwood,Joe Skrakowski,Harry Smith (Writer on mathematics),2019 Developed for the new International A Level specification these new resources are specifically designed for international students with a strong focus on progression recognition and transferable skills allowing learning in a local context to a global standard Recognised by universities worldwide and fully comparable to UK reformed GCE A levels Supports a modular approach in line with the

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Pearson Edexcel International A Level Decision Mathematics Martin Crozier,Suzie Jameson,Keith Pledger,Peter Sherran,Joe Skrakowski,Harry Smith,2018 *NEW A-LEVEL MATHS EDEXCEL PRACTICE PAPERS (FOR THE EXAMS IN 2019)*. CGP. BOOKS,2018 **A Level Mathematics for Edexcel: Statistics S1** James Nicholson,2008-02-14 Oxford A Level Mathematics for Edexcel takes a completely fresh look at presenting the challenges of A Level It specifically targets average students with tactics designed to offer real chance of success to more students as well as providing more stretch and challenge material This Statistics 1 book includes a background knowledge chapter to help bridge the gap between GCSE and A level study **Pearson Edexcel International A Level** Greg Attwood,Joe Skrakowski,Harry Smith,2019-07-19 Developed for the new International A Level specification these new resources are specifically designed for international students with a strong focus on progression recognition and transferable skills allowing learning in a local context to a global standard Recognised by universities worldwide and fully comparable to UK reformed GCE A levels Supports a modular approach in line with the specification Appropriate international content puts learning in a real world context to a global standard making it engaging and relevant for all learners Reviewed by a language specialist to ensure materials are written in a clear and accessible style The embedded transferable skills needed for progression to higher education and employment are signposted so students understand what skills they are developing and therefore go on to use these skills more effectively in the future Exam practice provides opportunities to assess understanding and progress so students can make the best progress they can *Pearson Edexcel International A Level Mathematics Pure Mathematics 1 Student Book* Joe Skrakowski,Harry Smith,2018 Edexcel International A Level Greg Attwood,Joe Skrakowski,Harry Smith,2019 Developed for the new International A Level specification these new resources are specifically designed for international students with a strong focus on progression recognition and transferable skills allowing learning in a local context to a global standard Recognised by universities worldwide and fully comparable to UK reformed GCE A levels Supports a modular approach in line with the specification Appropriate international content puts learning in a real world context to a global standard making it engaging and relevant for all learners Reviewed by a language specialist to ensure materials are written in a clear and accessible style The embedded transferable skills needed for progression to higher education and employment are signposted so students understand what skills they are developing and therefore go on to use these skills more effectively in the future Exam practice provides opportunities to assess understanding and progress so students can make the best progress they can

Pearson Edexcel International A Level Mathematics Pure Mathematics 3 Student Book Joe Skrakowski, Harry Smith, 2019 Developed for the new International A Level specification these new resources are specifically designed for international students with a strong focus on progression recognition and transferable skills allowing learning in a local context to a global standard Recognised by universities worldwide and fully comparable to UK reformed GCE A levels Supports a modular approach in line with the specification Appropriate international content puts learning in a real world context to a global standard making it engaging and relevant for all learners Reviewed by a language specialist to ensure materials are written in a clear and accessible style The embedded transferable skills needed for progression to higher education and employment are signposted so students understand what skills they are developing and therefore go on to use these skills more effectively in the future Exam practice provides opportunities to assess understanding and progress so students can make the best progress they can

Edexcel AS and A Level Modular Mathematics Statistics 1 S1 Mr Alan Clegg, Greg Attwood, Ms Jane Dyer, Ms Gillian Dyer, 2008 Edexcel and A Level Modular Mathematics S1 features Student friendly worked examples and solutions leading up to a wealth of practice questions Sample exam papers for thorough exam preparation Regular review sections consolidate learning Opportunities for stretch and challenge presented throughout the course Escalator section to step up from GCSE PLUS Free LiveText CD ROM containing Solutionbank and Exam Caf to support motivate and inspire students to reach their potential for exam success Solutionbank contains fully worked solutions with hints and tips for every question in the S

Pearson Edexcel International A Level Mathematics Further Pure Mathematics 2 Student Book Joe Skrakowski, Harry Smith, 2019

Pearson Edexcel International a Level Mathematics Decision Mathematics 1 Student Book Ebook Joe Skrakowski, 2020

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Pearson Edexcel International A Level Mathematics Mechanics 2 Student Book Joe Skrakowski, Harry Smith, 2018 Developed for the new International A Level specification these new resources are specifically designed for international students with a strong focus on progression recognition and transferable skills allowing learning in a local context to a global standard Recognised by universities worldwide and fully comparable to UK reformed GCE A levels Supports a modular approach in line with the specification Appropriate international content puts learning in a real world context to a global standard making it engaging and relevant for all learners Reviewed by a language specialist to ensure materials are written in a clear and accessible style The embedded transferable skills needed for progression to higher education and employment are signposted so students understand what skills they are developing and therefore go on to use these skills more effectively in the future Exam practice provides opportunities to assess understanding and progress so students can make the best progress they can

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focus on progression recognition and transferable skills allowing learning in a local context to a global standard Recognised by universities worldwide and fully comparable to UK reformed GCE A levels Supports a modular approach in line with the specification Appropriate international content puts learning in a real world context to a global standard making it engaging and relevant for all learners Reviewed by a language specialist to ensure materials are written in a clear and accessible style The embedded transferable skills needed for progression to higher education and employment are signposted so students understand what skills they are developing and therefore go on to use these skills more effectively in the future Exam practice provides opportunities to assess understanding and progress so students can make the best progress they can

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web the purpose of the copper iron stoichiometry lab was to determine which of the two possible iron sulfate compounds formed when reacting aqueous copper ii sulfate with solid iron metal the techniques used in this lab were weighing by difference quantitative transfer and vacuum filtration

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web objective to apply stoichiometric principles to calculate the appropriate chemical equation for the reaction between iron metal and a solution of copper i sulfate introduction in the form of finely split powder copper metal is produced as a byproduct of the process as iron ions the iron metal dissolves

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web purpose to enhance the understanding of stoichiometry a reaction between iron and copper ii sulfate solution will be conducted this will help you to differentiate limiting and excess reactant in a chemical reaction finally the theoretical and percent yield of this reaction will be calculated

single replacement stoichiometry lab central bucks school district - Sep 04 2022

web purpose in this experiment you will observe a single replacement reaction you will also use stoichiometry to predict what the theoretical yield of product is and calculate a percent yield reaction iron copper ii sulfate copper iron ii sulfate pre lab questions write the balanced equation

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web lab report stoichiometry copper sulfate and iron the oxidation of trimethylamine by copper ii chloride nov 10 2022 this

research was on the irreversible oxidation of trimethylamine by copper ii chloride which takes place at temperatures of about 75 and higher the coordination of trimethylamine by copper ii

lab report on iron stoichiometry 1098 words bartleby - Jan 28 2022

web october 3 2017 abstract the techniques used in this lab are quantitative transfer and vacuum filtration with the reaction of 8 001 grams of copper ii sulfate CuSO_4 and 2 0153 grams of iron powder Fe the goal of this experiment was to determine the product of copper ii sulfate with iron

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web procedure 1 find the mass of a clean dry 100 ml beaker and record 2 measure out 8 00 grams of copper ii sulfate onto a piece of filter paper taking the filter paper s mass into account add these to the beaker 3 measure 50 0 ml of water in the cylinder and add it to the beaker 4

stoichiometry lab the reaction of iron with copper ii sulfate - Oct 05 2022

web stoichiometry lab the reaction of iron with copper ii sulfate the study of stoichiometry deals with the calculation of quantities in a chemical reaction how much product will be produced how much reactant do you need to make that much product

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web description great lab for use during stoichiometry unit in chemistry reinforces ideas of mole ratios and stoichiometry calculations by measuring the mass of iron that reacts and the mass of copper metal produced students can calculate the ratio of moles of reactant to moles of product this experimental mole ratio from lab can be compared

stoichiometry the reaction of iron with copper ii sulfate - Jun 13 2023

web in this experiment we will use stoichiometric principles to deduce the appropriate equation for the reaction between metallic iron and a solution of copper ii sulfate this reaction produces metallic copper which is seen precipitating as a finely divided red powder

lab stoichiometry iron with copper ii sulfate pdf scribd - Nov 06 2022

web in this lab we will use experimental evidence and the principles of stoichiometry to determine which ion is formed in a single replacement reaction between iron and copper ii sulfate pre lab assignment in preparation for the lab activity we will investigate another single replacement reaction between copper and silver nitrate

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web through this experiment we sought to use stoichiometric principles which derive from stoichiometry the study of substance quantities in ratio or proportion in a chemical reaction in this lab experiment the principles help distinguish the equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction

lab 4 lab 4 stoichiometry of iron copper ii sulfate redox - Jan 08 2023

web this experiment is focused on a reaction between iron metal and a solution of copper ii sulfate we are able to figure out the chemical equation between the two by using stoichiometric principles the iron displaces the copper ii sulfate ions the copper ii is then reduced and gains electrons

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web stoichiometry can be defined as the relationship between the relative quantities of substances taking part in a reaction or forming a compound stoichiometric principles can be used to deduce the appropriate chemical equation for a reaction in our experiment we used solid iron in the form of powder was added to a solution of copper ii sulfate

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web stoichiometric principles can be used to determine the chemical equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction the iron ions dissolve in the copper ii sulfate solution to produce copper ii ions

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web lab 4 stoichiometry the reaction of iron with copper ii sulfate revised 8 19 2009 1 introduction in this experiment we will use stoichiometric principles to deduce the appropriate equation for the reaction between metallic iron and a solution of copper ii sulfate this reaction produces

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web under the finalise of the experiment it was found that iron was the limiting reactant and iron ii sulfate was a product of the reaction between 7 0002g away cooper ii sulfate and 2 0101g iron metal which produced 2 3037g of copper product with a percent yield of 100 72 introduction

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web stoichiometry lab report the reaction of iron with copper ii sulfate period 5 in this experiment i observed the reaction of iron with copper ii sulfate i obtained the results to this experiment through adding heated CuSO_4 solution to the iron powder stirring the solution adding water then removing water adding acetone heating the acetone on low

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web stoichiometry lab iron and copper sulfate sample data data and observations mass of copper ii sulfate pentahydrate 3 27

g of g mass of filter paper mass of filter paper and dry copper mass of dry copper 1 28 g

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