

GCSE MATHEMATICS ANSWERS
NON-CALCULATOR QUESTIONS

1. a) $\frac{87}{150} \times 100 = \frac{87}{3} \times 2 = 58\%$	M1 A1 [2]
b) $\frac{84}{100} \times 150 = \frac{84}{2} \times 3 = 126$ marks	M1 A1 [2]
2. a) 300 Francs = 15 lots of 20 Francs So she spends $15 \times £2.10$ $15 \times £2.10 = 10 \times £2.10 + 5 \times £2.10$ $= £21 + £10.50 = £31.50$	M1 (or equiv) M1 (any valid method) A1 [3]
b) $£56 \div £2.10 \times 20$ $\frac{5600}{210} \times 20 = \frac{80}{3} \times 20 = \frac{1600}{3} = 533$ Francs	M1 M1 A1 [3]
3. a) $39 \div 12 = 3.25$	M1 A1 [2]
b) Five feet and five inches is 65 inches. So need to calculate $65 \div 39$ $\frac{65}{39} = \frac{5}{3} = 1.67\text{m}$	M1 M1 A1 [3]
4. a) 2.3×10^5 4.093×10^6 1×10^{-4}	B3 (-1 for each extra) [3]
b) i) $3.2 \times 10^3 \times 2 \times 10^2 = 6.4 \times 10^5$	B1 (6.4) B1 (10^5) [2]
ii) $3.2 \times 10^3 \times 2 \times 10^2 = 3200 + 200 = 3400 = 3.4 \times 10^3$	M1 A1 [2]
iii) $4.0 \times 10^{-2} \div (2 \times 10^2) = 2.0 \times 10^{-4}$	B1 (2) B1 (10^{-4}) [2]
5. a = 50° ; (vertically) opposite angles b = 50° ; corresponding to 50° (or alternate to a) c = 130° ; angles on a straight line sum to 180° d = 70° ; the other two angles in the triangle are 60° ($180 - 120$) and 50° (opposite)	B2 B2 B2 B1 M1 A1 [9]

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**Robert Maranto, Tommaso
Agasisti, Rodrigo Queiroz e Melo**

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Edexcel GCSE Maths: Higher Marguerite Appleton,Dave Capewell,Derek Huby,Jayne Kranat,Geoff Fowler,Pete Mullarkey,Katherine Pate,James Nicholson,2015-11-05 Please note this title is suitable for any student studying Exam Board Edexcel Level GCSE Subject Mathematics First teaching September 2015 First exams June 2017 Edexcel GCSE Maths Higher Student Book has been created by experts to help deliver exam success in Edexcel s new Maths GCSE Written for Higher tier students the book focuses on developing students fluency in key mathematical skills and problem solving using carefully chosen examples and extensive practice Powered by MyMaths the book links directly to the ever popular web site offering students a further source of appropriate support [Oxford International AQA Examinations: International GCSE Mathematics Extended](#) June Highton,Steve Lomax,Steve Fearnley,Peter Mullarkey,Matt Nixon,James Nicholson,2016-10-13 The only textbook that offers complete coverage of the Oxford AQA International GCSE Mathematics Extended Level specification 9260 for first teaching from September 2016 Written by experienced authors the clear international approach ensures strong mathematical understanding and provides exam focused practice to build assessment confidence Ensure students develop the key mathematical reasoning and problem solving skills needed for the Extended Level exam and provide an excellent grounding for A Level study **Mastering Mathematics for WJEC GCSE: Foundation** Gareth Cole,TBC,Heather Davis,Sophie Goldie,Linda Liggett,Robin Liggett,Andrew Manning,Richard Perring,Keith Pledger,Rob Summerson,2018-09-17 Exam Board WJEC Level GCSE Subject Mathematics First Teaching September 2015 First Exam June 2017 Help students get to grips with the new style examinations in Numeracy and Mathematics with books that build all the necessary skills to progress their learning and develop their problem solving skills Provides one book for each tier ensuring full coverage with mathematics only questions and chapters clearly highlighted so the specifications can be co taught or taught separately as required Organises topics into units so as to provide questions that build understanding and fluency enabling students to confidently tackle and solve real and interesting problems Enables students to identify the appropriate remediation or extension steps they need in order to make the best progress through easy to follow progression strands that help to identify gaps in learning Offers a seamless five year progression when used in conjunction with KS3 Mastering Mathematics Welsh editions will be available from Summer 2016 **Annual Abstract of Statistics 2014** ,2015

Assessment Policy Reform Tina Isaacs,Iasonas Lamprianou,2020-05-21 This book highlights the impact of policy and politics on assessment across the globe With contributions from England the Irish Republic Northern Ireland Norway Sweden Switzerland and Wales it explores state led assessment policies and practices that have been the subject of much debate We are experiencing a shift from using assessments especially national tests as measurement instruments designed to produce information to a reliance on tests to influence policy and instruction Once tests become high stakes for students teachers and schools even those that might have been reasonable monitors of educational success can lose dependability and credibility

However not all countries assessment policies follow the same model and the contributors explore and analyse a range of different national and supra national assessment policy approaches and perspectives The chapters identify the impetus behind changing assessment policies and practices and analyse ways forward and innovative approaches Readers can draw their own conclusions about which model s can provide the best outcomes for learners surely the most important part of the equation This book was originally published as a special issue of Assessment in Education Principles Policy Practice

Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2013 *School Choice in Europe* Robert Maranto,Tommaso Agasisti,Rodrigo Queiroz e Melo,2025-02-05 In this book leading experts present rigorous readable studies of education policies and school markets in 11 European countries from Ireland to Ukraine offering lessons for researchers policymakers and educators No other book fills this niche Americans debating whether parents choosing their children s schools will improve education would be wise to learn from a century of experience in Europe where most governments have long subsidized private schools including religious schools Likewise Europeans debating this issue may learn that there is a varied landscape of state private school arrangements around Europe and that the one specific to their country may be enriched by these experiences This volume brings together leading European researchers who present rigorous readable studies exploring how education markets work in 11 European countries from Ireland to Ukraine The chapters cover a range of topics including empirical examinations of the reasons Irish parents choose single sex education how a Ukrainian school improvised to serve students and parents in a war zone how school choice defused culture wars in countries as varied as the Netherlands and Estonia how the German left and right embraced increased parental agency for different reasons the effectiveness of central regulations of autonomous British schools how changing subsidy levels affect demand for private schooling in Italy and Portugal the motivations of Hungarian parents choosing schools and the impacts of social class on schooling choices and policies in Sweden Germany and Spain This volume will be a key resource for academics researchers and advanced students of education education policy and leadership educational research economics and sociology The chapters included in this book were originally published in the Journal of School Choice *Teaching STEM in the Secondary School* Frank Banks,David Barlex,2014-07-17 The skills knowledge and understanding of the subjects involved in STEM Science Technology Engineering and Mathematics are vital for all young people in an increasingly science and technology driven society This book looks at the purpose and pedagogy of STEM teaching and explores the ways in which STEM subjects can interact in the curriculum to enhance student understanding achievement and motivation By reaching outside their own classroom teachers can collaborate across subjects to enrich learning and help students relate school science technology and maths to the wider world Packed with ideas and practical details for teachers of STEM subjects this book considers what the STEM subjects contribute separately to the curriculum and how they relate to each other in the wider education of secondary school students describes and evaluates different curriculum models for STEM

suggests ways in which a critical approach to the pedagogy of the classroom laboratory and workshop can support STEM for all students addresses the practicalities of introducing organising and sustaining STEM related activities in the secondary school looks to ways schools can manage and sustain STEM approaches in the long term This timely new text is essential reading for trainee and practising teachers who wish to make the learning of Science Technology Engineering and Mathematics an interesting motivating and exciting experience for their students *GCSE Maths Edexcel Higher Student Book (Collins GCSE Maths)* Kevin Evans, Keith Gordon, Brian Speed, Michael Kent, 2021-09-20 Exam Board Edexcel Level Subject GCSE Maths First teaching September 2015 First exams June 2017 Endorsed by Edexcel **AQA GCSE Maths: Higher** Stephen Fearnley, June Highton, Steven Lomax, Peter Mullarkey, James Nicholson, Matthew Nixon, 2015-11-05 Please note this title is suitable for any student studying Exam Board AQA Level GCSE Subject Mathematics First teaching September 2015 First exams June 2017 AQA GCSE Maths Higher Student Book has been approved by AQA and specially written by a team of maths experts for the Higher tier of AQA s 2015 GCSE specification Designed to fully support the new style of assessment the book adopts a clear style to focus on delivering exam success via the careful development of fluency and problem solving practice Powered by MyMaths the book links directly to the ever popular web site offering students a further source of appropriate support

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