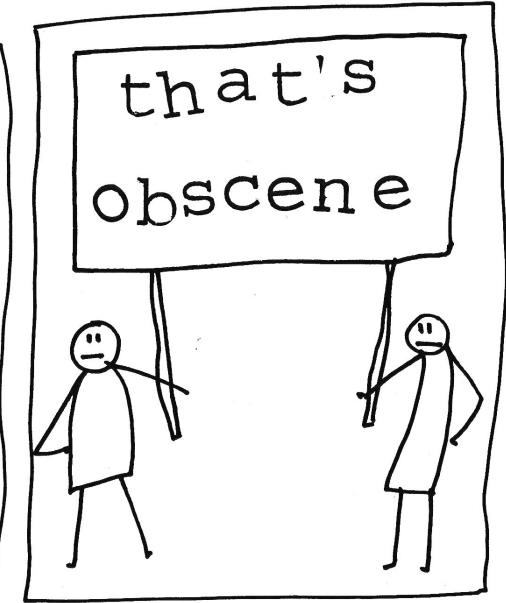
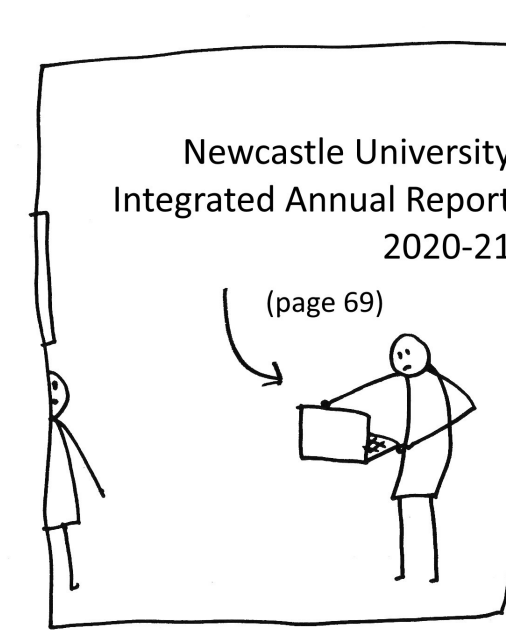
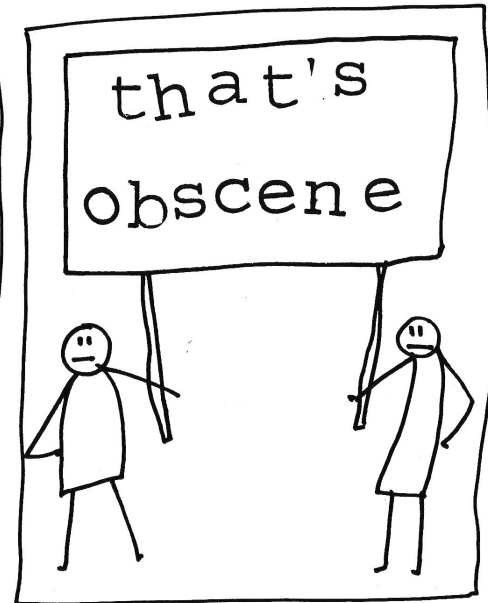
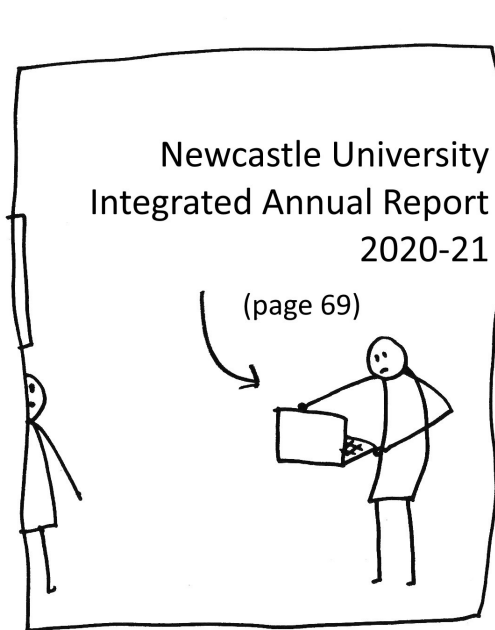
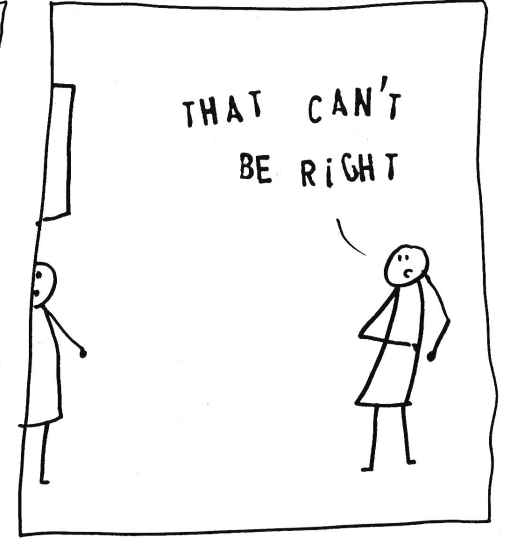


Day 2



Day 2



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MATHEMATICS EXAMINATION PAPER A

Please attempt all questions. You may phone a friend or ask the audience. Bonus points will be awarded if you calculate tax as part of your answers.

1. The 14 members of Newcastle University's Executive Board ('Key Management Personnel') were paid a total of £2.6million in 2020-21. £2.6m is equivalent to **how many Undergraduate students' tuition fees?** (The UK Home rate for Undergraduate tuition fees is £9250 per year; International fees are much higher)
2. Rightmove.co.uk calculates the average house price for Newcastle as £235,929. **How many 2-hour lectures** would an hourly paid Associate Lecturer (Grade F, £16.27/hour) have to give to save for a 10% deposit?
3. Newcastle University employs the equivalent of 5,878 full-time staff (at 31st July 2021).
 - a. **How many days would the Vice-Chancellor have to work** to buy every colleague a £3 meal deal (sandwich, drink, snack)?
 - b. **How many days would you have to work to buy every colleague a £3 meal deal?**



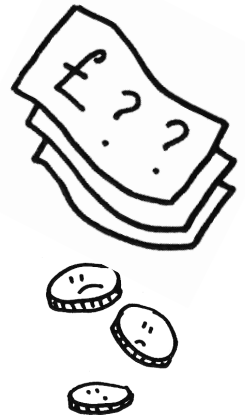
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MATHEMATICS EXAMINATION PAPER B

Please attempt the question in full. You may discuss your answer. Bonus points will be awarded if you calculate tax as part of your answer.

1. Essay question. Annual energy bills for a 'typical household' will rise by £693 from April 2022. **Using any two of the following scenarios, compare & contrast the effect rising energy bills will have on a single-income household:**
 - zero hours employment at the UK National Living Wage £8.91 per hour (age 23+) or UK Real Living Wage £9.90 per hour
 - UKRI-funded stipend for doctoral research £300 per week (£15,609/year)
 - Newcastle University Teaching Assistant starting salary £507 per week (£26k/year)
 - Newcastle University Professional Services Grade F starting salary £604 per week (£31k/year)
 - UK median average full-time weekly pay £611 (£32k/year)
 - Newcastle University Lecturer starting salary £700 per week (£36k/year)
 - Newcastle University Vice-Chancellor total remuneration package £7,308 per week (£380k/year)



References

Newcastle University Integrated Annual Report 2020-21 <https://www.ncl.ac.uk/media/wwwnclacuk/whoware/files/Integrated%20Annual%20Report%202020-21.pdf>
Office for National Statistics: Employee earnings in the UK 2021 <https://www.ons.gov.uk/employmentandlabourmarket/peopleinwork/earningsandworkinghours/bulletins/annualsurveyofhoursandearnings/2021>
BBC News article on energy price rises <https://www.bbc.co.uk/news/business-60242432>

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