N5 Applications of Mathematics   Income

2019 P1 Q2(a)	Paul usually works 30 hours each week. He is paid time and a half for any **additional** hours that he works. His basic rate of pay is £12·50. Last week, he worked a total of 37 hours. (a) Calculate his gross pay for last week.	3
Ans	£506·25	
2018 P2 Q10(a)	Fiona is a vet. She has started a new job. Her new salary is £42 000. National Insurance is calculated on a person's salary **before** deductions such as pension contributions. <table><tr><td colspan="2">National Insurance rates</td></tr><tr><td>Up to £8164</td><td>0%</td></tr><tr><td>From £8164 to £45 032</td><td>12%</td></tr><tr><td>Over £45 032</td><td>2%</td></tr></table> (a) (i) Calculate Fiona's annual National Insurance payment. Fiona's annual income tax payment is £5427·96. She pays an annual contribution of £3360 into her pension. Fiona is paid in 12 equal monthly payments. (ii) Calculate Fiona's monthly net pay.	2 2
Ans	(a) (i) £4060·32 (i) £2429·31	

Russell works night shift.

- He works from 2300 until 0900 the next day.
- His rate of pay is £14·40 per hour.
- He gets paid time and a half between 2200 and 0730.
- He works 5 shifts each week.

(b) Calculate his weekly gross pay.

3

Ans | (£) 1026

Anna works as a sales person for a computer company.

She is paid a basic monthly salary of £2450 plus commission of 2·5% on her monthly sales over £3000.

(a) Calculate Anna's gross salary for April when her sales totalled £9000.

3

In her April payslip, she has the following deductions:

- Income Tax   £334·67
- National Insurance £230·20
- Pension   £164·74

(b) Calculate her net salary for April.

2

Ans | (a) (£)2600 (b) (£)1870·39

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Grace works for a company selling fitted kitchens.

She is paid a basic monthly salary of £500.

She also receives 5% commission on all her sales above £8000.

In January Grace sells £23 000 of goods.

Her monthly deductions are 12% of her gross income.

Grace writes down her budget for the month.

Rent	£245
Bills	£198
Food	£164
Entertaining	£75

Grace saves any surplus.

(a) Calculate Grace's net pay for January.

4

(b) (i) Calculate the surplus that Grace will have for January.

1

(ii) Grace's rent increases to £260 per month.

Calculate the percentage increase in her rent.

2

Ans | (a) (£)1100 (b)(i) (£) 418 (ii) 6·1(%)

Seonaid is saving up to buy a tablet computer costing £388.

She earns £7·30 per hour and works for 30 hours each week.

Seonaid is paid at the end of each week.

She pays £5·32 in Income Tax and £7·68 in National Insurance each week.

Her living expenses are £86 per week.

Seonaid saves half of the money that she has left each week towards the tablet computer.

How many weeks will it take her to save up enough money to buy the computer?

3

Ans | 7 weeks

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Adam works for 40 hours per week as a tractor driver on a farm.

His basic wage is £7·40 per hour.

Each week he pays £28·43 Income Tax and £8·57 in National Insurance.

(a) Calculate his take home pay.

1

Ans | £259

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