

Maths Revision Worksheet: Paper I Arithmetic

1. I know to work with **ratios and proportions** to find parts or shares or sums of various quantities
Ex1 Pg 101
Ex2 Pg 102
2. I understand that '**Tolerance**' to the 'nearest metre' means that 10m could be 9.5m or 10.5m and would use these dimensions if looking to find max and min values
Ex2 Pg 109
3. I know how to calculate '**Percentage Error**'
Ex1 Pg 108
4. I can find the percentage of a quantity and can use this to find the cost of items before and after VAT or Sale Reduction etc.
Ex 1 Pg 105
SP3 Q1a
2014 paper II Q7a and b
SP7 Q4
5. I know how to find the **Percentage Profit or Loss**
Ex2 Pg 105
2014 Paper I Q1
6. I know how to perform Currency Exchange calculations knowing that
Commission charged = Full amount due – Amount Received
And
%Commission = (Commission charged / Full amount Due) X 100
Ex1 Pg 111
2013 Q4
7. I know how to calculate **Universal Social Charge** using the given Income Thresholds Table
Ex4 Pg 115
8. I know that **Tax Payable = Gross Tax – tax credits** and can calculate **Income Tax** using the template supplied to me by my teacher.

Ex1, 2 and 3 Pg 113

2012 Q1

Mock 2015 Q8a

9. I know that **Take Home Pay = Gross pay – (Net Tax Payable + Total USC + PRSI)**
10. I know that **% Rate PRSI = (Actual PRSI Amount /Gross Pay)*100**
11. I know that when considering **Compound Interest** problems that

Interest Amount = Final amount (F) – Principal Amount (P)

Interest Rate = (Interest Amount / Principal Amount) X 100

$F=P(1+i)^t$ where i is the interest rate expressed as a decimal and t is time

I know that F can represent the amount due to me after giving the bank a principal amount P for a time t at an interest rate of i (as a form of saving)

I know that F can represent the amount I will have to pay the bank after giving me an initial principal amount P for a time t at an interest rate of i (in the form of a loan)

Ex 1,2,3 and 4 Pg 118

I know that **AER (Annual Equivalent Rate)** is the same as “Annual Rate of Interest” or “Interest” and that the following formula shows how to calculate either the ‘monthly rate of interest’ or the AER given either:

$$(1 + r)^{12} = 1 + i$$

where **r = monthly interest rate expressed as a decimal and i is the AER or ‘Interest’ expressed as a decimal’**

I can use the above to calculate AER’s and monthly rates for credit cards and bonds.

Ex5 Pg 120 2013 Q4 SP3 Q1c SP4 Q4ab 2014 Q7

2013 Q4a and b 2014 SP Q2

12. I know how to Calculate Depreciation values

Ex6 Pg 121

SP1 Q1