

Grange Academy National 5 Lifeskills Core Skills Booklet

Name:

Grange Academy

FORMULAE LIST

Circumference of a circle: $C = \pi d$ $A = \pi r^2$ Area of a circle: С $a^2 + b^2 = c^2$ Theorem of Pythagoras: b а Volume of a cylinder: $V = \pi r^2 h$ Volume of a prism: V = Ah $V = \frac{1}{3}\pi r^2 h$ Volume of a cone: $V = \frac{4}{3}\pi r^3$ Volume of a sphere: Standard deviation:

 $s = \sqrt{\frac{\Sigma(x - \overline{x})^2}{n - 1}} = \sqrt{\frac{\Sigma x^2 - (\Sigma x)^2 / n}{n - 1}}, \text{ where } n \text{ is the sample size.}$



Homework	1	2	3	4	5	6
Score						

Past Paper Summary:

National 5 Lifeskills	Specimen Paper		2014		2015		2016	
	Paper 1	Paper 2	Paper 1	Paper 2	Paper 1	Paper 2	Paper 1	Paper 2
Percentages				Q4	Q4	Q1b, 5d		Q1, Q7b
Fractions	Q1							
Time	Q2a				Q2		Q3	Q2
Speed/Distance/Time	Q2b	Q1	Q5	Q6				Q4b, 6c
Perimeter					Q7	Q2b	Q6	
Ratio and Proportion	Q7					Q1a		
Volume		Q5	Q9			Q6c		Q8
Interpreting Graphs, Charts and Tables			Q1,		Q1	Q2a, Q6a,b	Q7	Q3
Probability			Q2				Q2	
Tolerance					Q4, Q8			
Rules and Formulae								
Packing					Q3			
Precedence Tables	Q4		Q6				Q5	
Scale Drawing				Q3		Q4		Q4a
Pythagoras			Q3a	Q5a	Q7		Q6	
Gradient	Q9				Q8		Q10	
Area	Q7		Q3b	Q5b	Q10		Q8, 9	
Gross pay, Deductions and Net Pay	Q8b		Q4a				Q4	
Wages and Salaries								Q7a
Income Tax and Allowances	Q8a							
Borrowing Money		Q4						Q7c
Insurance								
Profit and Loss	Q3				Q6			
Foreign Currency	Q6	Q6	Q8					Q5b
Compound Interest								
Best Deal				Q2	Q5		Q1	Q5a
Budgeting		Q2	Q4b	Q7	Q9	Q3		
Quartiles						Q5a		
Box Plot	Q10		Q7			Q5a		
Averages		Q3c,d						
Standard Deviation		Q3a,b		Q1		Q5b,c		Q6a,b
Scattergraphs	Q5							

<u>Summary</u>

Keep a record of the questions that you are getting right.

Use this to identify the areas where you are struggling a bit.

Ask your teacher for help with these areas!

Homework 1	Homework 2	Homework 3	Homework 4	Homework 5	Homework 6
	Homework 1	Homework 2	Homework 3	Image:	Image:

Homework Sheet 1	
1 (calculator) Mr Houston bought a new car for £18500 in July 2010. Its value depreciated by 15% in the first year, 18% in the second year and 25% in the third year. By how much had its initial price fallen by July 2013?	2 (non-calculator) Evaluate $3\frac{5}{8} + 4\frac{2}{3}$.
 3 (non-calculator) A cake recipe requires self raising flour and plain flour in a ratio of 3 : 1. a) The cake needs 300g of self raising flour. How much plain flour is needed? b) Jenny wants to make as many cakes as possible for a fair. She has 730g of self raising flour and 200g of plain flour. How many cakes can she make at most? 	4 (calculator) Joe is preparing to run the London Marathon. He jogs round the perimeter of Strathclyde park 5 days a week for 4 weeks. His average speed is 9km/hr and his recorded total running time for the month is 12 hours 42 minutes. Find the perimeter distance of the park.
5 (calculator) A semi-circular window is made from three identical pieces of glass.	 6 (calculator) a) A cylindrical paperweight of radius 3cm and height 4cm is filled with sand. Calculate the volume of sand in the paperweight. if arm is arm is arm is a constrained on the paperweight. b) Another paperweight, in the shape of a hemisphere, is filled with sand. It contains the same volume of sand as the first paperweight. Calculate the radius of the hemisphere.
 7 (calculator) Paul conducts a survey to find the most popular school lunch. 30 pupils vote for Pasta 40 pupils vote for Baked Potato 2 pupils vote for Salad Paul wishes to draw a Pie Chart to illustrate his data. How many degrees must he use for each sector? Do not draw the pie chart. 	 8 (non-calculator) Davina has a bag of sweets. It contains 3 yellow, 4 purple, 2 red and 6 pink sweets. The corner of her bag is torn and a sweet falls out. a) What is the probability that this sweet is yellow? b) The sweet that fell out was yellow and she put it in a bin. What is the probability that the next sweet to fall out is pink?
9 (non-calculator) A sculpture is to be made by stacking three blocks of stone. Each block of stone is a cube of side (1.2 ± 0.05) metres. What is the maximum height of the sculpture?	10 The Room Index is used to calculate the amount of light needed in a workroom. The formula for the Room Index, R, is $R = \frac{LW}{H(L+W)}$ Where L metres is the length of the room, W metres is the width of the room and H metres is the height of the light above the work surface. Calculate the Room Index for a workroom 4.4 metres long, 3.2 metres wide with the light 1.4 metres above the work surface.

Homework Sheet 1	
Homework Sheet 1 11 (calculator) Phil is making a wooden bed frame. The frame is rectangular and measures 195cm by 95cm. In this piece of wood long enough to add a piece of wood along one of its diagonals. He has a piece of wood 2.2 metres long. Is this piece of wood long enough to fit along the diagonal? Give a reason for your answer. Do not use a scale drawing.	 12 (non-calculator) The 'Accessibility Guidelines for Buildings and Facilities for Wheelchair Access' give two recommendations. Recommendations The maximum gradient of a ramp shall be 1 in 12. The maximum rise shall be 760 mm for any length of run. Max. rise Max. rise Max. gradient = 1 in 12 run The drawing below shows the design of a new ramp. 0.5 m 0.5 m a Does the ramp meet recommendation 1? Give a reason. b) Does the ramp meet recommendation 2? Give a reason.
13 (calculator) A badge showing a clown's head consists of a semi-circle and a triangle. Image:	14 (calculator) A copy of Logan Pollock's payslip is shown below for one week in February. Logan worked 40 hours for his basic pay.
15 (non-calculator) Abby bought a mobile phone for £125. She sold it a few months later for £80. Calculate her loss as a percentage of what she paid for the phone.	16 (calculator) The bank of Salamander offers loans to its customers.The table shown below can be used to calculate loan repayments. $\frac{60 \text{ months}}{M \text{ onthly}} \frac{48 \text{ months}}{M \text{ onthly}} \frac{24 \text{ months}}{repayment}$ $\frac{60 \text{ months}}{M \text{ onthly}} \frac{48 \text{ months}}{Repayment} \frac{24 \text{ months}}{(\pounds)}$ $\frac{10000 \text{ Monthly}}{(\pounds)} \frac{M \text{ onthly}}{Repayment} \frac{M \text{ onthly}}{Repayment}}{(\pounds)} \frac{M \text{ onthly}}{(\pounds)} $

Homework Sheet 1					
17 (calculator) The tariffs shown below are available when buying a mobile phone.	18 (non-calculator) The number of visitors to Farrhill Museum is recorded daily over a three week period. The results are shown in				
Pay As You Go Calls: 14p per minuteMonthly Contract Rental: £18 per month Calls: 6p per minutea) Find the cost of using 200 minutes of calls each month on the (i) Pay As You Go tariff; (ii) Monthly Contract tariff.b) Nick and Amy have mobile phones. Nick is on Pay As You Go and Amy has a monthly contract.In April: • The cost to each other was exactly the same 	the stem and leaf diagram below. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
19 (calculator) A ten-pin bowling team recorded the following six scores in a match. 134 102 127 98 104 131 For this sample calculate: a) the mean b) the standard deviation Show clearly all your working.	20 (non-calculator) Sandy takes the bus to work each day. Over a two week period, she records the number of minutes the bus is late each day. The results are shown below: 5 6 15 0 6 11 2 9 8 7 a) From the above data, find: (i) the median (ii) the lower quartile (iii) the upper quartile b) Construct a box plot for the data.				

Homework Sheet 2					
1 (calculator)	2 (non-calculator)				
It is estimated that house prices will increase at the rate					
of 3.15% per annum.	Evaluate $\frac{3}{2}$ of 480 a.				
A house is valued at £134,750. If its value increases at the	4 0) 10091				
predicted rate, calculate its value after 3 years.					
Round your answer to the nearest thousand.					
3 (non-calculator)	4 (calculator)				
A coffee shop blends its own coffee and sells it in one-	For safety reasons the speed limit outside Fairfield Park is				
kilogram tins.	20 miles per hour.				
One blend consists of two kinds of coffee, Brazilian and	The distance between the speed limit signs outside Fairfield				
Colombian, in the ratio 2:3.	Park is half a mile.				
The shop has 20 kilograms of Brazilian and 25 kilograms	A van took 2 minutes to travel between these signs.				
of Columbian in stock.	Was the van travelling at a safe speed?				
What is the maximum number of one-kilogram tins of	Give a reason for your answer.				
this blend which can be made?					
5 (calculator)	6 (calculator)				
The diagram below shows a birthday card.	Perfecto Ice Cream is sold in cones and cylindrical tubs with				
	measurements as shown below:				
↑ HAPPY	DEPEECTD 11 cm				
DIDTUDAY					
10 cm	20 cm				
↓ 12 cm					
The card consists of a rectangle and a semi-circle.					
There is gold ribbon all round the border of the card.	Both the cone and the tub of ice cream cost the same.				
Calculate the total length of gold ribbon needed for this	Which container of ice cream is better value for money?				
card.	Give a reason for your answer.				
Give your answer to the nearest centimetre .					
7 (non-calculator)	8 (non-calculator)				
The scattergraph shows the taxi fare, p pounds,	A school office orders 25 boxes of folders. They order 7				
plotted against the distance travelled, <i>m</i> miles.	boxes of blue folders, 11 boxes of green folders, 3 boxes of				
A line of best fit has been drawn.	pink folders and 4 boxes of yellow folders. The order arrived				
	in identical boxes but they are not labelled.				
••••					
	 a) What is the probability that the first box opened 				
Taxi fare (pounds)	contains pink folders?				
	h) The first hav contained green folders. What is the				
	b) The first box contained green folders. What is the				
$ \qquad \qquad$	probability that the next box opened contains blue folders?				
The equation of the line of best fit is $p = 2 + 1.5m$.					
Use this equation to predict the taxi fare for a journey of					
6 miles.					
9 (calculator)	10 (non-calculator)				
A wooden cube has each of its sides measured as 6cm.	The approximate stopping distance of a car can be found by				
All measurements are within a tolerance of $(\pm 0.2 \ cm)$.	using the formula				
a) Calculate the minimum and maximum volume of the	$p = \frac{1}{s^2}$				
cube, in cubic centimetres.	$D = \frac{1}{3} \left(s + \frac{1}{20} \right)$				
b) The weight of the cube is (0.63 ± 0.04) grams per	Where D metres is the approximate stopping distance and s				
cubic centimetre.	miles per hour is the speed before braking.				
Calculate the minimum possible weight of the wooden	Calculate the approximate stopping distance when the				
cube.	speed before braking is 30 miles per hour.				

Homework Sheet 2

11 (calculator)

An earring in the shape of an isosceles triangle is made from silver wire.

The dimensions of the earring are shown on the diagram below.



12 (calculator)

When council buildings are built there are two legal points that must be adhered to for wheelchair access: 1. The maximum height should be 900mm for any length

of ramp.

2. The maximum gradient of a ramp should be 0.10

The drawing shows the design of a new wheelchair ramp.



a) Does it meet legal requirement 1? Explain your answer.

b) Does it meet legal requirement 2? Explain your answer.

One week he works for 39 hours and is paid £255.84. How much is he paid for each hour of **overtime** that he

Calculate the length of silver wire needed to make a **pair** of earrings.

Do not use a scale drawing.

13 (calculator)

A section of lawn edging consists of a rectangle with five equal semi-circles at the top.



 $-60\,\mathrm{cm}$

Calculate the area of the section in square centimetres. Give your answer correct to the **nearest square centimetre.**

15 (calculator)

The Davidson family is planning to buy a new kitchen using hire purchase.

The cash price of the kitchen is £6300.

The hire purchase price is 22% more than the cash price. The hire purchase agreement requires a deposit, which is 15% of the cash price, followed by 60 equal installments.

Calculate the cost of each installment.

16 (calculator)

14 (calculator)

works?

Jack works a basic week of 35 hours.

Any overtime is paid at time and a half.

The table below gives the **monthly** repayments from three different banks on a £10 000 loan repaid over **five years**.

Name of Bank	Monthly Repayments				
	With payment protection	Without payment protection			
Savewell	£245·39	£214·39			
Finesave	£260·58	£205.65			
Wisespend	£263·17	£214·70			

Emily borrowed £10 000 and paid it back over five years. The cost of the loan was £2339. Which bank was the loan from and did she take it with or without payment protection?

Homework Sheet	2						
17 (calculator) Two lenders, Mortgages Direct and Leading Mortgage, offer mortgages at different rates on a loan of £45000.		18 (non-calculator) One weekend, the attendances at five Premier League football matches were recorded.					
Mortgages DirectMonthly payments $\pounds 330.50$ plus one set-up fee $\pounds 500$ Which mortgage would beof 3 years and by how muture	Leading Mortgage Monthly payment £349.90 and no other fees to pay.	8900 12700 59200 10300 9700 The median attendance is 10300. a) Calculate the mean attendance. b) Which of the two "averages" – the mean or median – is more representative of the data? You must explain your answer.					
Which mortgage would be better value over a period of 3 years and by how much? 19 (calculator) A sample of six boxes contains the following numbers of pins per box: 43 39 41 40 39 44 a) For the above data, calculate: (i) the mean; (ii) the standard deviation. The company which produces the pins claims that "the mean number of pins per box is 40 ± 2 and the standard deviation is less than 3". b) Does the data in part (a) support the claim made by the company? Give two reasons for your answer.		20 (non-calculator) At a ski resort the temperature in degrees Celsius was recorded each day at noon for the first fortnight in February 2013. 0 -1 2 -5 4 2 -3 1 -4 8 -6 4 -2 1 a) Calculate (i) the median temperature; (ii) the lower quartile; (iii) the lower quartile. b) Use the above data to construct a box plot. c) The temperature, in degrees Celsius, was recorded at the same ski resort each day at noon for the first fortnight in February 2014. The following boxplot was constructed.					

Homework Sheet 3					
1 (calculator) An industrial machine costs £176 500. Its value depreciates by 4.25% each year. How much is it worth after 3 years? Give your answer correct to the nearest thousand .	2 (non-calculator) Evaluate $1\frac{3}{5} \times 2\frac{4}{7}$.				
 3 (calculator) Ben needs 550 grams of flour to bake two small loaves of bread. a) How many kilograms of flour will he need for thirteen small loaves? Ben buys his flour in 1.5 kilogram bags. b) How many bags of flour will he need to bake the thirteen small loaves? 	4 (COICULATOF) Katy drove 351 miles from Perth to Birmingham. Her average driving speed was 52 miles per hour. She also had two 40 minute stops during the journey. She left Perth at 1750. When did she arrive in Birmingham?				
5 (calculator) A sign for a mushroom farm consists of a semi-circle and a rectangle. MANOR MUSHROOMS +30 cm+ 50 cm+ 50 cm+ -20 cm+ There is a red border painted all around the edge of the sign. Calculate the total length of the red border. Give your answer correct to the nearest centimetre. 7 (non-calculator) The fuel consumption, in miles per gallon, of twenty one cars is shown below. 62 36 54 31 45 27 46 29 39 33 50 42 53 28 36 32 30 44 38 34 41 a) Display the information in a stem and leaf diagram. b) Find the median fuel consumption in miles per gallon. c) Find the range.	 6 (calculator) The Battle of Largs in 1263 is commemorated by a monument known as The Pencil. This monument is in the shape of a cylinder with a cone on top. The cylinder part has diameter 3 metres and height 15 metres. a) Calculate the volume of the cylinder part of The Pencil. The volume of the cone part of The Pencil is 5.7 cubic metres. b) Calculate the total height of The Pencil. 8 (non-calculator) Two identical dice are rolled simultaneously. Find the probability that the total score on adding both numbers will be greater than 7 but less than 10. 				
 9 (non-calculator) A sweet manufacturer rejects packets of sweets whose weight does not lie within the acceptable tolerance level of (120 ± 2%) grams. Which of these packets should be rejected: a) 118.2 grams b) 117.1 grams c) 122 grams 	10 (non-calculator) The size of each angle, a° , in a regular polygon is given by the formula $a = 180 - \frac{360}{n}$ where <i>n</i> is the number of sides in the regular polygon. a) Calculate a when $n = 10$. b) Calculate <i>n</i> when $a = 140$.				

Homework Sheet 3								
11 (calculator)		12 (ca	Iculato	or)				
Jo is making a patchwork cushion.		The diagram below shows a staircase Mark intends						
Each patch is a right-angled triangle		to install in his home. The dimensions of the riser and						
With both short sides 12 centimetr	res long.	tread o	of each	step are	e showr	۱.		
St And 12						Т	read depth 300 mm	
Nº //////// Sh						-	< →	
						ſ		
She makes the cushion by arrangin	g the patches as							
shown.					ς			
			Dicor boir					
			170 mm					
Calc	rulate the length of	For safe	ety reas	ons, the	ese rules	must be	e applie	ed.
the the	cushion.	1.	Twice th	ne riser ł	neight p	olus the t	tread de	epth
	not use a scale		should I	oe 625 <i>n</i>	$m \pm 15n$	mm.		
drav	wing.	2.	The gra	dient of	each s	tep sho	uld be le	ess than
	-		<u>-</u> 2.					
Length		Mark th	ninks tha	at this st	aircase	will mee	et both (of these
		rules. Is	mark c	orrect?	Justify y	our ans	wer.	
13 (non-calculator)		14 (ca	Iculato	or)				
A hotel is redecorating t heir t	function room	Shirley v	vorks in a	a call cent	re. Her b	asic rate	of pay is	£6.40
which includes a semi-circlula	ar stage area.	per hou	r.					
They plan to lay a hardwood	floor. A sketch	She is pa	aid time a	and a half	for work	king overt	ime in th	е
of the plan of the room is sho	wn below.	evening and double time for working overtime at the						
\square		weekend.						
5. 5.		One week she works 35 hours at the basic rate and 6 hours						
12 -		weekend						
		Shirley's gross pay for the week is £320.						
2m		How many hours did she work at the weekend?						
16m			,					
Calculate the area of the floo	or in the hotel's							
function room.								
(non-calculator, use $\pi = 3.14$)		1//	المربادية -	~)				
A microwaya ayan is cold for (150		The tel)[]	monthl	v ronaum	onto to b	o mada
This price includes VAT at 17 5%		when m	onevich	orrowed	from the	Bank of	Caledonia	
Calculate the price of the microway	ve oven without	Renavments can be made with or without loan protection						
		периуш		Monthly	repayment	s: Bank of C	Caledonia	
			24 m	onths	36 m	onths	48 m	onths
		Loan	With	Without	With	Without	With	Without
		Amount	Loan Protection	Loan Protection	Loan Protection	Loan Protection	Loan Protection	Loan Protection
		£10000	£495	£,445	£343	£,305	£,277	£237
		£8000	£395	£356	£275	£,244	£222	£190
		£5000	£247	£223	£172	£153	£139	£119
		£4000	£198	£179	£138	£123	£111	£95
		Jeremy	borrows i	£8000 ov	er 36 mo	nths with	out loan	
		protecti	on.					
		After 28	months	he is mac	le redund	dant and i	is unable	to pay
		the rem	ainder of	the loan				
		His brother, Peter, agrees to make the remaining repayments.						
		How mu	ich does l	Peter pay	in total?			

Homework Sheet 3	
17 (calculator) Scott sees the following notice in the window of the Big Computer Shop.	18 (non-calculator) Shoppers at two stores, Lidl and Aldi, were asked how much they spent on their last visit to the store.
THE BIG COMPUTER SHOP: Massive sale $33\frac{1}{3}\%$ discount on all purchases.a) A computer was £834. How much would Scott pay for it in the sale?The same computer can be bought in Pete's PC Shop on hire purchase.PETE'S PC SHOP: £55 deposit and £23.33 per month for 2 years.b) Which shop sells the computer cheaper?Show your working.	 shoppers at Lidl. 48 37 42 57 81 73 64 61 72 39 a) Find the median. b) Find the range. Another ten shoppers were asked at Aldi. The median was £67 and the range was £28. c) Make two comments comparing the amounts spent by the shoppers at the Lidl and Aldi stores.
19 (calculator) A rugby team scored the following points in a series of matches	20 (non-calculator) The pupils in a primary class record their shoe sizes as
13 7 0 9 7 8 5 a) For the sample, calculate: (i) the mean; (ii) the standard deviation Show clearly all your working. The following season, the team appoints a new coach. A similar series of matches produces a mean of 27 and a standard deviation of 3.25. b) Make two valid comparisons about the performance of the team under the new coach.	8 7 6 5 6 5 7 11 7 7 7 8 7 9 6 8 6 5 9 7 a) for this data, find: (i) the median; (ii) the lower quartile; (iii) the lower quartile; (iii) the upper quartile. b) Construct a box plot for this data.

Homework Sheet 4			
1 (calculator)	2 (non-calculator)		
Calculate the compound interest earned when £50 000 is			
invested for 4 years at 4.5% per annum.	Find $\frac{5}{2}$ of 420.		
Give your answer to the nearest penny.	6 9 1201		
3 (non-calculator)	4 (calculator)		
School theatre visits are arranged for parents, teachers	A car travelling at an average speed of 80 kilometres per		
and pupils.	hour takes 2 hours 45 minutes for the journey from		
The ratio of parents to teachers to pupils must be	Dundee to Inverness.		
1:3:15.	Calculate the distance between the two towns.		
a) 45 pupils want to go to the theatre. How many			
b) The theatre gives the school 100 tickets for a play			
What is the maximum number of nunils who can go to			
the play?			
5 (non-calculator)	6 (calculator)		
Lizzie Douglas bends a length of wire into the shape of	A health food shop produces cod liver oil capsules for its		
her initials.	customers.		
	Each capsule is in the shape of a cylinder with		
	hemispherical ends as shown in the diagram below.		
10 cm			
¥ []			
6 cm			
The letter D is a semi-circle.	15 mm		
Calculate the total length of wire.	^{23 mm} The total length of the cancule is 23 millimetres and the		
Give your answer correct to the nearest centimetre .	length of the cylinder is 15 millimetres		
	Calculate the volume of one cod liver oil capsule.		
7 (non-calculator)	8 (non-calculator)		
The scattergraph shows the weights and heights of a	A mini lottery game uses red, green, blue and yellow		
group of teenagers.	balls. There are 10 of each colour, numbered from 1 to		
	10.		
180	The balls are placed in a drum and one is drawn out.		
	a) W/bat is the probability that it is a C		
	a) what is the probability that it is a b ?		
Height 160	b) What is the probability that it is a yellow 6 ?		
(cm)	by what is the probability that it is a yenow o :		
150			
60 70 80 Weight (kg)			
a) Draw a line of best fit through the points on the graph.			
b) Use your line of best fit to estimate the height of a			
teenager whose weight is 80 kilograms.			
9 (calculator)	10 (non-calculator)		
When training for a 10k, Craig timed himself.	A civil engineer uses the formula $A = \frac{1}{2}l(b+h)$ to		
His times ranged from 56 minutes down to 42 minutes.	calculate a particular area, A.		
a) Write down his times in tolerance notation as in	Calculate A when $l = 8, b = 6$ and $h = 12$.		
(\pm) minutes.			
b) Now calculate his tolerance using percentages as			
mins (\pm %).			

Homework Sheet 4

11 (calculator)

The screen size of a laptop computer is the length of the diagonal from one corner of the rectangular screen to its opposite corner.

37 cm SIL cm reen 25 cm 2 cm

The laptop measures 37 centimetres by 25 centimetres as shown.

The frame around the screen has a width of 2 centimetres.

Calculate the screen size of this laptop.

Do not use a scale drawing.

13 (calculator)

The plan of a patio is shown below.



The patio consists of a rectangle and a semi-circle. Calculate the area of the patio.

Give your answer to the nearest square metre.

Erica pays 6% of her Gross Pay into her Pension. Calculate Erica's Net Pay for March.

During March she does 88 massages.

15 (calculator)	16 (calculator)
Tony sells jewellery.	a) Before he went on holiday to Australia, Jack changed £2000
One day he earned £90 commission for selling	into Australian dollars.
jewellery worth £750.	The exchange rate was £1 = AU\$1.58.
Express Tony's commission as a percentage of his sales.	How many Australian dollars did Jack receive for £2000?
	b) While in Australia he changed a further £400 into
	What was the new exchange rate?

12 (calculator)

A new regulation states that the gradient of all ramps into a building must be less than 0.26. An existing ramp is 410cm long and has a horizontal distance of 400cm.



Does the ramp satisfy the new regulation? Show all your working and give a reason for your answer.

14 (calculator)

Erica works as a masseuse at a health club.

Her March pay	slip, shown	below, is	only	partly com	pleted.
---------------	-------------	-----------	------	------------	---------

Name	Employee No.	Tax Code	Month
E. Roe	666	710L	March
Basic Pay £1350	Overtime Pay -	Bonus	Gross Pay
Nat. Insurance £187·42	Income Tax £297.59	Pension	Deductions
			Net Pay

Erica is paid a bonus of £7.25 for each massage she does.

Grange Academy

Homework Sheet 4			
17 (calculator)	18 (calculator)		
Helen travels between Glasgow and Edinburgh by train.	The heights (in metres) of nine rugby players are		
She buys a monthly Travel Pass which costs £264.30.	shown below:		
A daily return ticket would cost £16.90.			
Last month Helen made 19 return journeys.	1.89 1.85 1.91 2.01 1.93 1.78 1.81 2.03 1.88		
How much did she save by buying the travel pass?			
	(a) find the lower quartile.		
	(b) Calculate the interquartile range.		
19 (calculator)	20 (non-calculator)		
Harry often plays golf and the scores for some of his	The stem and leaf diagram shows the number of		
games are recorded below.	minutes on average spent on homework per night by a		
84 78 87 80 81	group of first year pupils.		
	1 0 5 5 5		
a) For this sample calculate:	2 0 1 2 2 3 5 5 8 9 3 0 5 5 6 6 7 8 9 9 9		
(i) the mean;	4 2 4 4 5 6 7		
(ii) the standard deviation.	5 0		
Show clearly all your working.			
	n = 30 1 0 represents 10 minutes		
b) His partner for these games is Tony, whose scores are	a) Using the above data find:		
	(i) the median;		
104 98 107 100 101	(ii) the lower quartile;		
scores	(III) the upper quartile.		
300183.	b) Draw a boxplot to mustrate this data.		
	c) A group of fourth year pupils was surveyed to find		
	homework per night. The hoxplot below was drawn for		
	this data		
	Compare the two boxplots and comment.		

Homework Sheet 5	
1 (calculator) In the evening, the temperature in a greenhouse drops by 4% per hour. At 8pm the temperature is 28° Celsius. What will the temperature be at 11pm?	2 (non-calculator) Evaluate $3\frac{1}{2} + \frac{4}{5}$.
 3 (non-calculator) A recipe for Shortbread uses the following ingredients. 300 grams flour 100 grams sugar 200 grams butter Alana has only 240 grams of flour. To make Shortbread using all of the 240 grams of flour she will have to adjust the quantities of sugar and butter. How many grams of sugar and how many grams of butter should she use? 5 (calculator) Mairi is planning to paint the walls of her room with 	 4 (calculator) Amy and Brian travel from Dundee to Stonehaven. The distance between Dundee and Stonehaven is 80 kilometres. Amy takes 1 hour 30 minutes to travel by car. Brian takes the train which travels at an average speed of 60 kilometres per hour. What is the difference between their journey times? 6 (calculator) Lemonade is to be poured from a 2 litre bottle into glasses.
 a) How much paint does Mairi need to paint the walls of her room? b) Paint is sold only in 1 litre and 2.5 litre tins. What will be the minimum cost of painting Mairi's room with emulsion? 	Each glass is in the shape of a cylinder of radius 3 centimetres and height 8 centimetres.
7 (calculator) A sample of voters was asked how they intended to vote at the next election. The responses are shown below. SNP 35% Labour 30% Liberal Democrats 15% Conservative 10% Others 10% Construct a pie chart to illustrate this information. Show all of your working.	 8 (calculator) John's school sells 1200 tickets for a raffle. John buys 15 tickets. John's church sells 1800 tickets for a raffle. John buys 20 tickets. In which raffle has he a better chance of winning the first prize? Show clearly all your working.

Homework Sheet 5			
9 (calculator) Usain Bolt's trial times for the 200 metre sprint race are (19.9 ± 0.05) seconds. Calculate his fastest and his slowest speed in the 200 metres race, in metres per second, correct to 2 decimal places each time.	10 (non-calculator) The sum of the terms of a sequence of numbers is given by the formula $S = \frac{a(r^{n} - 1)}{r - 1}$ Calculate S when $a = 3, r = 2$ and $n = 4$.		
11 (calculator) A large advertising banner is hanging from a building. 20 m 1 for 1 for 1 for 26 m 27 m 28 m 29 m 20 m 20 m 21 m 22 m 23 m 24 m 25 m 20 m 21 m 22 m 23 m 24 m 25 m	 12 (calculator) The diagram represents an escalator connecting two levels in a new department store. 7.2 m 7.2 m 8.4 m x metres a) Calculate the horizontal distance (x). The "steepness" should not be more than 1.45. b) On completion, the site engineer confirmed that the escalator met the regulation. Did it? Explain you answer.		
13 (non-calculator) A supermarket has a canopy over its entrance. The edge of the canopy has 6 semi-circles as shown below.	14 (calculator) Alice Larsson is a nurse. She earns a gross salary of £27080 per year. She has tax allowances totaling £9940. The rates of tax applicable are as follows.		
 → 4m → Each semicircle has a diameter of 4 metres. a) Find the length of the curved edge of one of the semicircles. 	Taxable income Rate On the first £32 010 20% On the next £117 990 40% On any income over £150 000 45%		
b) Tony attaches fairy lights to the edge of the canopy.	Calculate Alice's annual tax bill for last year.		

Homework Sheet 5						
15 (non-calculator)	16 (calculator)					
	Below is the summary part of Geetha's Credit Card					
Cash Price £360	statement at the end of May.					
	Briggs Bank					
	Summary as at 21 May 2011					
Monthly Payment Plan Deposit ¼ of cash price and 30 monthly paymentsLiam buys a new stereo using the monthly payment plan. The cash price of the stereo is £360.The total cost of the monthly payment plan is 5% more than the cash price.Liam pays a deposit of one fifth of the cash price followed by 30 equal monthly payments. How much will Liam pay each month?	Credit Limit £4000 Available Credit £3760 Balance from previous statement £0.00 New Transactions £240.00 Interest £0.00 Balance owed £240.00 Minimum payment due £7.20 Payment due date 15 June 2011 Interest will be charged at 1% per month on any outstanding balance. Geetha pays the minimum payment. She does not use the credit card again. What is the "Balance owed" in her next statement?					
17 (calculator)	18 (calculator)					
Susan has £6200 in her Clydeside Bank account	For the set of data:					
Clydeside bank pays interest at 2.5% per annum.	1, 3, 4, 7, 7, 9, 13					
Highland Bank pays interest at 3.7% per annum.	Calculate:					
How much more money would Susan get in interest if	a) The median and upper and lower quartiles					
she moved her £6200 to the Highland Bank for one year?	b) The semi-interquartile range.					
19 (calculator)	20 (non-calculator)					
	A furniture maker investigates the delivery times, in days,					
a) The pulse rates, in beats per minute, of 6 adults in a	of two local wood companies and obtains the following					
hospital waiting area are:	data.					
68 73 86 72 82 78	Company Minimum Maximum Lower Median Upper					
Calculate the mean and standard deviation of this data.	Quartile Quartile					
b) 6 children in the same waiting area have a mean	Timberplan 16 56 34 38 45					
pulse rate of 89.6 beats per minute and a standard	Allwoods 18 53 22 36 49					
Make two valid comparisons between the children's pulse rates and those of the adults.	a) Draw an appropriate statistical diagram to illustrate these two sets of data.					
	 b) Given that consistency of delivery is the most important factor, which company should the furniture maker use? Give a reason for your answer. 					

Homework Sheet 6	
1 (non-calculator)	2 (non-calculator)
A charity had a stall at a fair selling crafts and cakes to raise	
money. The stall had sales worth £70.	Evaluate $\frac{3}{2} + \frac{1}{2}$
The charity must pay 15% of the money from the sales to the	4 16
organizers. The materials for the crafts and cakes $cost \pm 24$.	
What is the net amount of money raised?	
3 (non-calculator)	4 (non- calculator)
In a square plain glass panel, a designer wants to place a	Alzena drove from Glasgow to Manchestor Airport,
coloured triangular piece of glass as shown in the diagram	252 miles away. Alzena left Glasgow at 11.25pm. She
below	arrived at Manchestor Airport at 3.25am.
Coloured glass	a) How long did Alzena's journey take? b) Calculate her average speed in miles per hour for the journey.
8 cm The triangular piece of coloured glass is formed from a	
corner of the square to the mid points of the opposite edges	
as shown in the diagram.	
Calculate the ratio of the area of coloured glass to the area	
of plain glass.	
5 (calculator)	6 (calculator)
A tennis court is 11 metres wide.	A 2 litre bottle of undiluted orange juice has to be
It has an area of 264 square metres.	mixed with 4 times the amount of water.
	The orange juice is diluted and then poured into
	cylindrical glasses with a radius of 4cm and a height
	of 10cm.
11 m	a) If a space of 1 cm is left at the ten of each glass
	how many nunils will be able to get a glass of orange
	iuice?
	Juice .
	b) If all of the diluted juice is poured into 25 of these
Coloulate the meninester of the termine count	cylindrical glasses so that each contains the same
Calculate the perimeter of the tennis court.	amount, what depth of orange juice will be in each
	glass?
	Write your answer to the nearest centimetre.
7 (non-calculator)	8 (calculator)
The number of hours of sunshine was recorded daily in a city	Ronaldo scored eight goals in eleven games.
during a three-week period in June.	Messi scored nine goals in thirteen games.
The results are shown in the stem and leaf diagram below.	Who has the better scoring rate?
1	
2 1 3	
3 2 5 7	
4 1 5 7 8 n = 21	
$5 \ 2 \ 3 \ 6 \ 0 \ 2 \ 2$	
$7 \begin{vmatrix} 1 & 1 & 3 & 7 & 9 \end{vmatrix}$ $3 \begin{vmatrix} 2 & \text{represents } 3 \cdot 2 \text{ hours}$	
Using the above diagram:	
a) Calculate the range;	
b) Find the median number of hours.	

Homework Sheet 6	
 Homework Sheet 6 9 (non-calculator) Jill is taking part in an orienteering competition. She starts at checkpoint A. She then runs due east for 900 metres to checkpoint B. Checkpoint C lies on a bearing of: 055° from checkpoint A 320° from checkpoint B. Using a scale of 1cm to 100m, illustrate this information on a scale drawing. 11 (calculator) A wooden gate is 85 centimetres high and 200 centimetres wide. 	 10 (non-calculator) The rule for cooking a turkey is as follows: "Cook it for 16 minutes for every pound the turkey weighs plus an extra 20 minutes". a) How long will it take to cook an 8 pound turkey? b) If Miss Dawson starts cooking her 6¹/₂ pound turkey at 4.30pm, when is the earliest she can eat it? c) Mr Reeman wants him and his family to eat their 11 pound turkey at 1600. What is the latest time he should begin to cook it? 12 (non-calculator) Bradley decides to cycle from Kilsyth to the highest
The gate is strengthened by two bars which meet half-way across the gate as shown. The ends of each bar measure 15 centimetres. $200 \text{ cm} \qquad \qquad$	 point of Tak-Ma-Doon Road. The horizontal distance between these two places is 4.5 kilometres. Kilsyth is 70 metres above sea level. The highest point of Tak-Ma-Doon Road is 320 metres above sea level. a) Calculate the average gradient between Kilsyth and the highest point of Tak-Ma-Doon Road. Give your answer as a fraction in its simplest form. b) One part of the road has gradient ²/₂₅. Is this steeper than the average gradient? You must justify your answer.
13 (calculator) The floor plan of a concert hall is shown below. 20 m 12 m 12 m 4 m 12 m 4 m 12 m 4 m 12 m 4 m 12 m 14 m 12 m 12 m 14 m 12 m 14 m 12 m 14 m 12 m 14 m 12 m 14 m 12 m 14 m 15 m 16 m 17 m 18 m 19 m 19 m 10 m 10 m 10 m 10 m 10 m <	 14 (non-calculator) Jill earns £24,300 per annum. She has a personal tax allowance of £8130. She pays tax at the basic rate of 20%. a) Calculate how much tax she must pay each year. b) Jill also pays £166.08 per month in National Insurance and £100 per month into her pension. (i) Calculate Jill's total monthly deductions. (ii) Calculate Jill's monthly take home pay.

Homework Sheet 6

15 (calculator)

Part of Wendy's credit card statement is shown below.

Credit Limit = £1000	
Balance from previous statement	£25·78
Interest	£.2·24
Cliff Petrol Station Save More Supermarket H R Brown	£36·45 £64·17 £13·25
Total Balance	£A
Minimum repayment	£B
Minimum repayment = 2.5% of balance or $f.5$, y	vhichever is greater

16 (non-calculator)

Below is a copy of Marta Ronaldo's credit card statement.

Fact of wendy's credit card statement is shown below.		Western Ba	nk Finance	
Credit Limit = \pounds 1000	625.50	Name: Marta Ro Date: 18th May	naldo 2014	Account No 1950 2114 Credit limit: £1500
Balance from previous statement	£,25·78		Please ensure vour bavm	ent arrives by 30th May 2014
Interest	£.2·24		1 teuse ensure your paym	en arrives by 50th 112ay 2011
Cliff Petrol Station Save More Supermarket H R Brown Total Balance	£36.45 £64.17 £13.25	18 April 2014 24 April 2014	Balance brought forwar Payment – <i>Thank you</i> Interest (at 2%)	rd 370-58 - <u>50-00</u> 320-58 6-41
Minimum repayment Minimum repayment = 2.5% of balance or £5, wh	£B	6 May 2014 10 May 2014 12 May 2014	Mi Esposa Gowns Las Tapas Deliciosas Briggs Service Station	440·00 52·60 35·01
		Balance owed		854-60
Calculate the values of A and B.		Minimum payment Note: Interest is a is deducted. Marta makes the mi	t: 5% of balance owed or £ charged each month on outst nimum payment.	20, whichever is greater. anding balance after payment
47/ 1 1 1 1		How much is the m	inimum payment?	
 Crisps are sold in multipacks of 6, 12, or 22 £1.68, £3.00 or £4.68 respectively. a) What multipack offers the best val b) There is a special offer on the 6 pa where you can buy 3 multipacks for better value for money compared in (a). 	e packets costing ue for money? cket multipack or £4. Is this offer to your answer	John and Steve games. Shown scored in each 2 a) Find th b) Find th c) The m 23 and Make two com scored by Stev	en are playing snoo below are the nun game. 21 39 22 53 45 1 he median. he range. edian number of po the range is 15. hments comparing en and John.	oker. They play eight nber of points John 9 43 46 oints Steven scored is the number of points
19 (calculator)	/.	20 (non-ca	lculator)	
An athlete without a coach records the fol seconds) in a series of 400 metre rac es. 47.8 48.3 50.2 49.5 46.9 The same athlete then decides to train wit	lowing times (in 49.5 h an athletics	Juma recorded 12 times in wir conditions. The data for th box plot below	I his golf scores ove ndy conditions and ne windy conditions 7. Windy conditions	er the year. He played 12 times in calm s are illustrated in the
After training with the coach, the athlete r	uns a series of	⊢		
races which produces a mean of 49.3 seco standard deviation of 0.23.	nds and a	73 74 75 His scores for t	76 77 78 79 80 81 82 he calm conditions	83 84 85 86 87 88 s are shown in the
a) For the athlete's times without a coach,	calculate:	table below.	Calm conditions	
(ii) the standard devation.			70 68 73 7 67 78 74 7	3
b) Make two valid comparisons about the the athlete before and after training with t	performance of he coach.	a) Construct a golf scores in c b) State a valid	74 76 78 7 box plot to illustrational conditions. comparison between the second	⁶ te the data for Juma's

windy and calm conditions.

HOMEWORK 1	HOMEWORK 2
1. Price has fallen by £8829.12	1. £148000
2. $8\frac{7}{24}$	2. 360 <i>g</i>
3. (a) 100g (b) 2 cakes	3. $8 tins$
4. 5.715 <i>km</i>	4. $Fes, as 15mpn < 20 mpn$.
5. Area of damaged pane = $471cm^2$	5. $V = 566.04 cm^3 V = 550.91 cm^3$
6. (a) $V = 113.04 cm^3$ (b) $r = 3.8 cm$	The cone is better value as the volume is
7. Pasta = 150°, Baked Potato = 200°, Salad = 10°	greater.
8. (a) $\frac{1}{5}$ (b) $\frac{3}{7}$	7. $P = \pm 11$
9. 3.75 <i>m</i>	8. $(a)^{\frac{3}{2}}$ (b) $^{\frac{7}{2}}$
10. $R = 1.32$	9 (a) $Min = 5.8cm$ $V = 195.11cm^3$
11. The wood is long enough as 220cm >216.91cm $\frac{1}{1}$	$Max = 6.2cm, V = 238.33cm^3$
12. (a) Yes as $\frac{1}{16} < \frac{1}{12}$ (b) Yes as 500mm < 760mm	(b) min = $0.59g$ min weight = $115.11g$
13. Total area = $5.2cm^2$	10. 25 <i>m</i>
14. 5 hours overtime	11. Perimeter = 13.44cm
15. 36% loss	12. (a)Yes as 895.8mm < 900mm
16. $LOST OF loan = \pm 1016.40$ 17. (2) PAVG 528. Monthly 520. (b) 225 minutos	(b) No as $0.11 > 0.10$
17. (a) FATO 128, MONTHY 150 (b) 223 minutes	$13. Area = 1123cm^2$
18. $(a) \frac{21}{21}$ (b) 58 (bii) 46.5 (biii) 69	14. 19.30 per nour of overtime 15 Installment – f112.35
(c) SIQR=5.5	16. Finesave, without payment protection.
19. (a) $(1100) = 110$ (b) $(200) = 10.3$	17. Mortgages Direct £12398, Leading
(h)	Mortgage £12596.40. Mortgages Direct are
	better value by £198.40
	18. (a) Mean = 20160 (b) Median is more
0 2 4 6 8 10 12 14 16	representative as 4/5 of the values vary
No. of minutes late	less from this than they do from the mean.
	19. (a) mean = 41, s.d = 2.1 (b) yes because the mean lies between 28
	and 42 and the standard deviation is less
	than 3.
	20. (ai) median = 0.5 (aii) Q ₁ = -3
	(aiii) Q ₃ = 2
	(b)
	February 2013
	-5-4-3-2-1012345678
	Temp (°C)
	(c) The average temperature in 2014 is
	higher than 2013 because the median is
	nigner. The range of temperatures in 2014

HOMEWORK 3	HOMEWORK 4
1. £148000	1. Interest = £9625.93
2. $4\frac{4}{35}$	2. 350
3. $(a)^{3}.575kg$ (b) 3 bags of flour	3. (a) 9 teachers (b) 75 pupils
4. 0155	4. 220km
5. 306 <i>cm</i>	5. 42cm of wire
6. $(a)V = 106cm^3$ (b) H = 17.4m	6. Volume = 1021.55mm ³
7. (a)	7. Have this marked by your teacher.
2 7 8 9	8. (a) $\frac{1}{10}$ (b) $\frac{1}{40}$
3 0 1 2 3 4 6 6 8 9	9. (49±7) mins (b) (49± 14.3%)
	10. A = 72
6 2 Kev: 2 7 means 27	11. Screen size is 39.12cm
n = 21	12. Yes, new regulations are satisfied as
(b) 38 (c) 35	0.225<0.26
8. $\frac{1}{4}$	13. Total area = 28m ²
9. $117.1a$ should be rejected.	14. Net pay = £1383.71
10. (a) $a = 144$ (b) $n = 9$	15. 12%
11. 34 <i>cm</i>	16. (a) AU\$3160 (b) £1 = AU\$1.55
12. Rule 1: 540mm does not lie between 610mm	17. Saving = £56.80
and 640mm. Rule 2: m=0.57 which is not less	18. (a) Q ₁ = 1.83 (b) IQR = 0.14
than $\frac{1}{2}$. The staircase does not meet either	19. (a) mean = 82, s.d. = 3.5 (b) mean = 102,
2 requirement	s.d. = 3.5
13. $Area = 2.37.12m^2$	20. (ai) median = 35 (aii) Q_1 = 22 (aiii) Q_3 = 39
14. 3 hours overtime.	<u>(b)</u>
15. £128	
16. Peter pays £1952.	
17. $(a) \pm 556$ (b) Pete's PC Shop costs ± 614.92 .	10 20 30 40 50 Minutes shent or Honework
Cheaper from The Big Computer Shop.	(c) The average time spent on homework is
18. (a) 59 (b) 44 (c) Shoppers spend more on	higher for 4^{th} years as the median is higher
average in Aldi (higher median). The spread of	(42 mins compared to 35 mins) The time
amounts spent in Aldi is smaller as the range is	spent on homework for 4 th years is more
lower.	consistent as the range is smaller.
19. (a) mean = 7 s.d. = 3.96 (b) On average the	
mean score was much higher the following	
season as 27>7. The teams scoring was also	
more consistent is the new season as the	
standard deviation is lower.	
20. (ai) 7 (aii) 6 (aiii) 8	
(b)	
4 6 8 10 12	
Shoe Size	

HOMEWORK 5	HOMEWORK 6		
1. 24.8°C	1. Amount raised = £35.50		
2. $4\frac{3}{2}$	2. $\frac{13}{2}$		
10 3 80g of sugar 160g of butter	$\begin{array}{c} 16 \\ 3 3 \cdot 5 \end{array}$		
A Brian is 10 minutes faster	4 (a) 4 hrs (b) 63 mph		
5. 3 Litres of paint to be bought	5. $I = 24m$ (b) 22 glasses		
6 8 full glasses	5. $L = 24111 (D) 22 glasses$		
7 SNP 126° Labour 108° Liberal Democrats 51°	7 (a) range - 71 hrs		
7. SNF 120, Labour 108, Liberar Democrats 54 ,	(b) median = 5.2 hrs		
P(school) = 0.0125 P(church) = 0.0111 hetter	8 Ronaldo has a better scoring rate as 0.73 >		
chance of winning at the school			
9 Min speed 10.03 m/s	9		
May speed 10.08 m/s	5.		
$10 \ \text{S} = 55$	Scale 1cm : 100m		
10.5 = 55 11 Area = 240m^2	N		
12 (a) 4 3m (b) The escalator does not meet the	0552		
regulations as the gradient = 1.67 which is	A 9cm (320°)		
greater than 1 45	10. (a) 2 hrs 28 mins (b) 6.34pm (c) 1244		
13 (a) $C = 6.28m$	11. 122.07cm		
(b) Yes because $37.68m < 40m$.	12 (a) Gradient = $\frac{1}{2}$		
14. f3428	$\frac{12}{18}$		
15. Monthly payment = ± 10.20	(b) This is steeper as $0.08 > 0.055$		
16. Balance owed = ± 235.13	13. Ared = 54811 14. (a) 52224 (bi) 5525 58 (bii) 51480 42		
17. Difference = £74.40	14. (a) 15254 (b) 1555.56 (b) 11469.42		
18. (a) Q ₁ =3, Q ₂ =7, Q ₃ =9 (b) SIQR=3	15. $A = E141.05 D = E5$ 16. $E42.72 (E\%$ is minimum navmont)		
19. (a) mean=76.5 s.d. = 6.75 (b) The average	10. ± 42.75 (5% is initial payment) 17. (a) The 22 multipack as it is 21p per packet		
pulse rate of the children is higher than that of	of crisps compared to 25p and 28p		
the adults as the mean is higher. The childrens	(b) No, the 22 multipack is still chapper per		
pulse rates vary less from the mean as the	nacket of crisps by 1n		
standard deviation is lower.	18 (a) median = 41 (b) range = 34		
20. (a)	(c) John has a higher average score (higher		
Allwoods	median) but Steven is more consistent as		
	his range is lower		
	19 (a) mean=48.7 s d =1.24		
10 20 30 40 50 60 Delivery Times (Doys)	(b) The athletes average race time without		
(b) Allwoods would be the best company to	a coach was faster as the mean was lower.		
use as the average delivery time is shorter	The athletes race times were more		
(smaller median) and the range of delivery	consistent with the coach as the standard		
times is shorter.	deviation is lower.		
	20. (a)		
	Calm Conditions		
	60 70 80		
	(b) luma's average score was higher in		
	windy conditions as the median score is		
	higher. Juma's scores in calm conditions		
	are more consistent.		

Comment Page

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<u>Date</u>	<u>Personal</u> <u>Revision</u>	<u>Supported</u> <u>Study</u>	Homework Quality	Other Comments	<u>Signature</u>