

**EVANS RIVER K-12 SCHOOL
COURSE ASSESSMENT**

SUBJECT: Mathematics – Year 9 Data & Consumer

OUTCOMES to be assessed:	
Number:	Outcome:
DS 4.2	Collects & analyses data- interpreting graphs & measures of location
DS 5.1.1	Groups data- frequency & cumulative frequency tables/ graphs
NS 5.1.2	Solves consumer arithmetic problems- earning & spending

The Task:	Project
Weighting:	15%
Mark:	TBA
Time Allowed:	3 weeks
Due Date:	Monday Wk 2 Term 4

You are to complete the following tasks

1. find 10 jobs, using newspaper, internet etc, create a collage/poster of them
2. Calculate weekly, monthly & yearly wage for each. Present in table form
3. create or draw a column graph for the weekly wages
4. calculate mean & median weekly wage for your jobs
5. for the 10 jobs or elsewhere, find extra conditions, bonuses, benefits etc for a number of jobs. Write these on a separate sheet
6. Create a reasonable budget for an 18 year old who has left home & has there first job. Explain how you determined each item in the budget. Include taxation.
7. create a frequency & cumulative frequency table & polygon for the attached data set. You will need to fill in values with your own numbers

MARKING SCHEME:

Your responses will be marked on your ability to meet the criteria

DATA SET

Score	Frequency	Cumulative Frequency
5	4	
6		
7	7	
8	6	
9		
10	5	
11	4	
12		

Rubric

Task	Outcome met	Working towards	Minimal
Jobs poster	Contains 10 examples of many payment options eg salary, wage, well presented	Contains between 6 and 9 examples of jobs and many payment options eg salary, wage, well presented	Contains less than 6 examples of jobs and many payment options eg salary, wage, well presented
Wage calculations	Calculations for 10 jobs, and different payment types completed	Calculations for 6 to 9 jobs, and different payment types completed	Calculations for less than jobs, and different payment types completed
Column graph	Headings, axes labeled, regular vertical and horizontal scales neat	One of the following missing or incorrect. Headings, axes labeled, regular vertical and horizontal scales neat	Two or more of the following missing or incorrect. Headings, axes labeled, regular vertical and horizontal scales neat
Mean & median	Correct calculations for 10 jobs, working included,	Correct calculations no working shown.	Some effort made to calculate the mean and median.
Job benefits	Benefits, bonuses and conditions considered for each jobs (10) listed in task 1.	Some benefits, bonuses and conditions included for each job listed in task 1..	Some attempt to identify a benefits, bonuses or conditions included for some of tht jobs listed in task 1.
Budget	Realistic budget with a minimum of 8 items shown. Reasons/ working included	Realistic budget with a 5 to 8 items shown. Reasons/ working included	Realistic budget less than 5 items shown.
Cumulative frequency	Frequency & cumulative frequency tables & graphs, correct & neat	Frequency & cumulative frequency tables & graphs, mostly correct & neat	A serious attempt to produce both the frequency histogram and cumulative frequency histogram.

Rubric

Task	A	B	C	D	E
Jobs poster	Contains 15 examples of many payment options eg salary, wage, well presented with pictures of jobs described	Contains 15 examples of many payment options eg salary, wage, well presented	Contains 10 examples of many payment options eg salary, wage, well presented	Contains between 6 and 9 examples of jobs and many payment options eg salary, wage, well presented	Contains less than 6 examples of jobs and many payment options eg salary, wage, well presented
Wage calculations	Calculations for 15 jobs, and different payment types with additional calculations for fortnightly and hourly pay rates.	Calculations for 10 jobs, and different payment types with additional calculations for fortnightly pay.	Calculations for 10 jobs, and different payment types completed	Calculations for 6 to 9 jobs, and different payment types completed	Calculations for less than jobs, and different payment types completed
Column graph		Headings, axes labeled, regular vertical and horizontal scales neat. Provision to show weekly earning range.	Headings, axes labeled, regular vertical and horizontal scales neat	One of the following missing or incorrect. Headings, axes labeled, regular vertical and horizontal scales neat	Two or more of the following missing or incorrect. Headings, axes labeled, regular vertical and horizontal scales neat
Mean & median	Correct calculations for 15 jobs, working included	Correct calculations for 12 jobs, working included,	Correct calculations for 10 jobs, working included,	Correct calculations no working shown.	Some effort made to calculate the mean and median.
Job benefits	Benefits, bonuses and conditions considered for each job (15) listed in task	Benefits, bonuses and conditions considered for each job (12) listed in task	Benefits, bonuses and conditions considered for each jobs (10) listed in task 1.	Some benefits, bonuses and conditions included for each job listed in task 1..	Some attempt to identify a benefits, bonuses or conditions included for some of tht jobs listed in task 1.
Budget	Realistic budget with more than 10 items shown. Reasons/ working included	Realistic budget with between 8 and 10 items shown. Reasons/ working included	Realistic budget with a minimum of 8 items shown. Reasons/ working included	Realistic budget with a 5 to 8 items shown. Reasons/ working included	Realistic budget less than 5 items shown.
Cumulative frequency			Frequency & cumulative frequency tables & graphs, correct & neat	Frequency & cumulative frequency tables & graphs, mostly correct & neat	A serious attempt to produce both the frequency histogram and cumulative frequency histogram.

