Workplace Mathematics 11

Unit 5 Project: Learning Guides 12, 13, 14
STATISTICS & GRAPHS

Student:	
T.A.:	MARK:
Teacher:	

COMPLETING THIS UNIT PROJECT

/25 marks

ACTIVITIES:

Complete the following activities:

PART I:

- ☐ Broken Line and Bar Graph
 - Use the data provided to create the graphs
 - Answer the questions (Presentation is important)

PART II:

- ☐ Circle Graph
 - Use the data provided to determine the fraction, percent and angle
 - Create the graph using a <u>protractor</u> (Presentation is important)

PART III:

- ☐ Histogram & questions
 - Use the data provided to create the graph
 - Answer the questions (Presentation is important)

PART I - Broken Line and Bar Graph

<u>REMEMBER</u>: GRAPHING IS ALL ABOUT <u>PRESENTATION</u>. Messy work will be returned or given a reflective mark.

Use the data to the right to create <u>two graphs</u>:
a broken-line graph

and

a bar graph.

ANSWER:

ANSWER:

Which months have the same amount of rainfall?

4.) How much more rain falls in January than falls in February?

Month	Amount of Rain (mm)
January	100 mm
February	70 mm
March	80 mm
April	70 mm
May	50 mm
lune	20 mm

For each graph below:	☐ include the "sca ☐ <u>label</u> the axis ☐ include a <u>title</u>	cale" (i.e. the months and increments for mm) 1 mark 1 mark 1 mark
<u>Broken-Line</u>	graph	<u>Bar graph</u>
Questions: 1 mark each 1.) Which month has	the most precipitation?	
Answer:	alls in that manth?	

PART II - Circle Graph

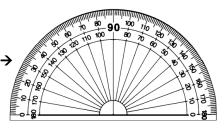
<u>REMEMBER</u>: GRAPHING IS ALL ABOUT <u>PRESENTATION</u>. Messy work will be returned or given a reflective mark.

For each student on the table below fill in: 1 mark per student (5 marks total)

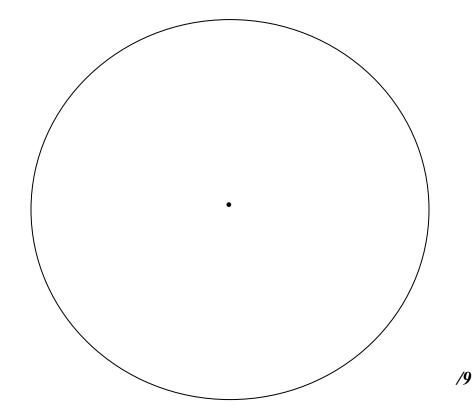
the fraction of the total
the percent of the total
the angle to use when drawing out your pie chart

Student	Hours Worked	Fraction of total	Percent of total	Angle (Used on the pie graph)
Nathan	5			
Sara	8			
Austin	12			
Kaitlyn	5			
Ryan	10			
Total	40		Total	360°

For the next part of the assignment you will need a protractor →



Use the angles determined above and a protractor to create the pie chart below. Make sure that you label the students on the chart or use a "colour legend". 4 marks



PART III - Histogram

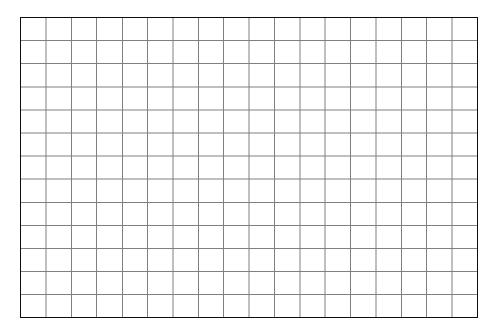
<u>REMEMBER</u>: GRAPHING IS ALL ABOUT <u>PRESENTATION</u>. Messy work will be returned or given a reflective mark.

Use the data below to create a histogram.

Television viewing							
Time spent watching TV (hours)	0 ≤ h < 5	5 ≤ h < 10	10 ≤ h < 15	15 ≤ h < 20	20 ≤ h < 25	25 ≤ h < 30	h ≥ 30
# of people	25	90	70	91	35	10	6

On your histogram below:	☐ include the "scale" (i.e. <u>the Time</u> and <u>Number of People</u>) 1 mark ☐ <u>label</u> the axis 1 mark ☐ include a <u>title</u> 1 mark

Histogram



Questions: 1 mark each

1.)	How many people watch between 10 and 15 hours of television each week?
	Answer:
2.)	How many people watch less than 15 hours each week?
	Answer:
3.)	How many people watch 15 or more hours of television during the week?
	Answer: