		Name:				
		Grade 5				
DATA	A MANAGEMEN	NT & PROBABILITY: ANALYZING DATA				
Don't forget	t to try the Interp	preting Data activity first! Go to mathfrog.ca for the link.				
For six days, Jason recorded the number of hours he slept.		a) Use the data at the left to complete the following bar graph, line graph and pictograph.				
Day He	ours of Sleep	Jason's Sleeping Schedule Jason's Sleeping Schedule Jason's Sleeping Schedule	ıle			
Sunday	8					
Monday	10					
Tuesday	9					
Wednesday	11	Rept Stept				
Thursday	10	Hours				
Friday	12					
<ul> <li>b) Calculate the of hours that</li> <li>c) What is the r</li> </ul>	e mean number Jason slept. node?	- Day of the Week Day of the Week Day of the Week	Friday			
<ul> <li>d) Jason became ill with the flu on Saturday and slept for 17 hours. Calculate the new:</li> <li>i) mean.</li> <li>ii) mode.</li> </ul>		Mean is the average of a set of numbers. Mode is the most frequent number in a set 5, 7, 4, 7, 7 The mean is 6 $\frac{5+7+4+7+7}{5} = \frac{30}{5} = 6$ The mode is	;t. 7			
For many years, Statistics Canada has recorded the average number of people per house.		a) What is the difference between the highest and lowest average number of people per house?				
Year Average Number of People per House		b) In one sentence, describe what seems to be happening to the average number of people per house.				

1.

1966

1971

1976

1981

1986

1991

1996 2001

3.7

3.5

3.1

2.9

2.8

2.7

2.6

2.6

2.



Expectations: i) display data in graphs; ii) read, interpret and draw conclusions from data presented in charts, tables and graphs; iii) calculate the mean and mode for a small set of data.

- 3. Mrs. Chalk just finished marking twenty mathematics tests. The marks were 100, 74, 88, 93, 81, 58, 71, 98, 76, 100, 52, 64, 85, 88, 92, 88, 84, 75, 62, and 71.
  - a) Complete the following chart.

Mark	Tally	Frequency	Fraction	Decimal
91-100	+++++	5	5/20	0.25
81-90				
71-80				
61-70				
51-60				



- b) Calculate the mean mark.
- c) What is the mode?



d) Use the data above to complete the circle graph. Don't forget to include a title and legend.









## TRY THIS!

Twelve students named their favourite television show. The results are shown below in a pictograph.



a) Use the data to complete the circle graph. Don't forget a title and legend.



Yu-Gi-Oh!

\_\_\_ (title)



- $\Box$  Brace Face
- □ Dexter's Laboratory
- □ Lizzie McGuire
- $\Box$  The Simpsons
- □ Yu-Gi-Oh!

b) Calculate the number of degrees in each section of the circle graph above. (Hint: The angle at the centre of a circle is 360°.)
 Brace Face \_\_\_\_\_\_\_ ° The Simpsons \_\_\_\_\_\_ °

Dexter's Laboratory

Lizzie McGuire

Expectations: i) display data in graphs; ii) read, interpret and draw conclusions from data presented in charts, tables and graphs; iii) calculate the mean and mode for a small set of data.