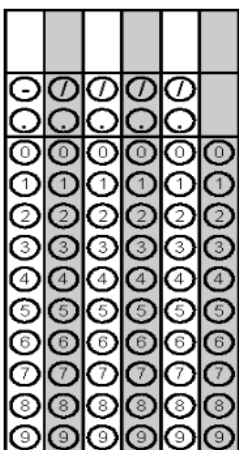
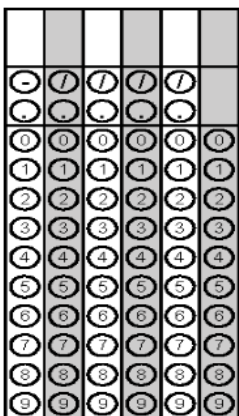


CCM6+ - Quarter 4 - Week 3

<p>Thursday</p>	<p>Which is greater? 9^0 or $(\frac{1}{9})^2$</p>	<p>The Newman family spent \$276 on groceries one week, \$179 the next week, \$212 the third week, and \$103 the last week of the month. What was their average weekly grocery cost? Express your answer in dollars and cents.</p>	<p>Problem 2</p> 										
<p>Friday</p>	<p>How much will it cost a family with 2 adults, 1 grandparent, and 3 children to purchase tickets?</p> <table border="1" data-bbox="359 1030 710 1198"> <thead> <tr> <th>Menu Item</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>Child</td> <td>\$4.50</td> </tr> <tr> <td>Adult</td> <td>\$10.75</td> </tr> <tr> <td>Senior Citizen</td> <td>\$6.00</td> </tr> <tr> <td>College Student</td> <td>\$8.25</td> </tr> </tbody> </table> <p>\$41</p>	Menu Item	Price	Child	\$4.50	Adult	\$10.75	Senior Citizen	\$6.00	College Student	\$8.25	<p>Simplify.</p> $\frac{3}{7} \times \frac{7}{34} \times \frac{17}{21} \times \frac{35}{7} = \frac{1245}{49782}$ <p>277 5 18</p>	<p>Problem 2</p> 
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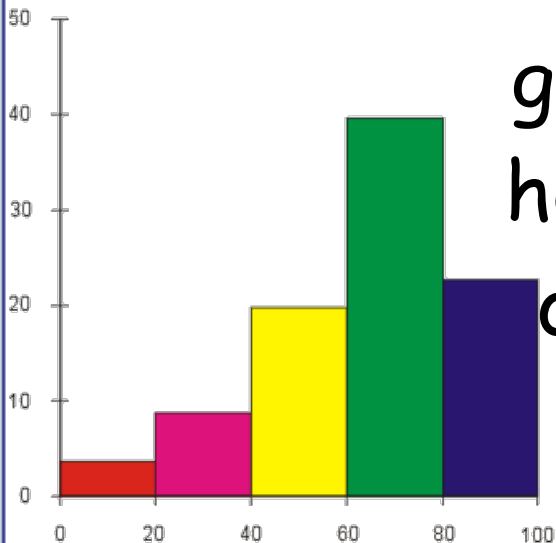




Histograms



Number
of students



Score on final exam (maximum possible = 100)

Histograms- bar graph that displays how frequency data occur within equal intervals





Instruction



intervals- space between two units, set of numbers consisting of all numbers between them

Interval Ex: 1-5, 6-10, 11-15



Bar Graph versus Histogram

Used to display
and compare
categorical data.

Ex:
Toyota vs Chrysler

Used to display and
compare numerical
data by spreading
into equal intervals

*Bars must touch!

Steps for Creating a Histogram

1. Construct a **frequency table**

- Intervals must be the same size
- Intervals extend to cover all possible values of data
- Have at least 4 intervals

2. Graph the **frequencies**

- Draw and label vertical and horizontal axes
- Draw a bar for each interval
 - *Bars are drawn with an equal width
 - *Bars should touch

3. Give the graph a **title**

Number of minutes students
used to study for spelling test.

~~11, 7, 15, 0, 16, 19, 13, 2, 14, 12, 6, 3, 18~~

How many numbers are in the
interval from 0 to 4? 3

from 5 to 9? 2

from 10 to 14? 4

from 15 to 19? 4



Name: _____ Class: _____ Date: _____

Histograms

Histogram:

Constructing a Histogram

Mrs. Pittman gave her class a history test. The class of 16 students had the following scores: 75, 80, 65, 80, 95, 85, 65, 80, 90, 80, 70, 85, 90, 70, 85, 70. Construct a histogram to represent this data.

Frequency Chart

Interval	Tally	Frequency
65-69		
70-74		
75-79		
80-84		
85-89		
90-95		

4
15-11

1. Listed below are the daily high temperatures (°F) for the first 20 days of April. Choose appropriate intervals to group the data, make a frequency table for the data, and construct a histogram for the data.

55	62	68	75	69	78	82	79	85	88
65	60	58	75	80	82	74	78	78	72

Frequency Chart

Interval	Tally	Frequency
55-59		
60-64		
65-69		
70-74		
75-79		
80-84		
85-89		

2. Thirty people in Max's neighborhood participated in a Walk-A-Thon fundraiser. The ages of the walkers were as follows:

12	8	32	35	15	47	9	15	52	55	70	18	36	29	12
11	16	45	44	19	62	60	8	23	27	10	34	74	13	59

- Make a histogram for the set of data.
- Determine the mean and median for this data set.
- Explain how the median for this data relates to the graph of the data.
- If the seven youngest participants did not walk and seven members of the Golden Oldies Club (over 70 years of age) took their place, how would this change the graph of the data? Determine the mean and median for this new data set.

Frequency Chart

Interval	Tally	Frequency
1-10		
11-20		
21-30		
31-40		
41-50		
51-60		
61-70		
71-80		

Constructing Histograms

Name _____

Create a frequency table and Histogram using the given information.

Number of crimes committed in 1984.

January	124	February	96	March	89
April	113	May	107	June	102
July	85	August	87	September	91
October	119	November	122	December	115

Interval	Tally	Frequency
85-89		
90-94		
95-99		
100-104		
105-109		
110-114		
115-119		
120-124		



Test scores for a high school Biology Test

81	77	63	92	97	68	72
88	78	96	85	70	66	95
80	99	63	58	83	93	75
89	94	92	85	76	90	87

Interval	Tally	Frequency



