Analyzing Product Price and Sales Data
Weather Data Worksheet

Day	High Temperature	Low Temperature
Sunday	76	54
Monday	80	60
Tuesday	97	72
Wednesday	77	58
Thursday	77	54

Calculate the Following:

1. Average (Mean) High Temperature   _____

2. Average (Mean) Low Temperature   _____

3. Median High Temperature   _____

4. Median Low Temperature   _____

5. Mode High Temperature   _____

6. Mode Low Temperature   _____

7. Range for High Temperatures   _____

8. Range for Low Temperatures   _____

Day	High Temperature	Low Temperature
Sunday	76	55
Monday	80	60
Tuesday	97	72
Wednesday	77	58
Thursday	77	54

Calculate the Following:

1. Average (Mean) High Temperature   81.4

2. Average (Mean) Low Temperature   59.8

3. Median High Temperature   77

4. Median Low Temperature   58

5. Mode High Temperature   77

6. Mode Low Temperature   none

7. Range for High Temperatures   21 degrees

8. Range for Low Temperatures   18 degrees

Analyzing Product Price and Sales Data
Geddes Kit List

	Item Name	RG Item #	Retail Price
1	Retro Pencils	67176	.20
2	Pet Silhouettes Pencils	67175	.20
3	Astral Wonders Pencils	67124	.20
4	Munchin Mike Sharpener	67183	.50
5	Piranha Sharpener	67037	.50
6	Mouse Sharpener	65627	.50
7	Erasing Grip	67137	.35
8	Criss Cross Critters	67036	.15
9	Happy Cap Erasers	64259	.05
10	Dessert Erasers	66993	.15
11	Twister Erasers	67027	.35
12	Mini Fish Erasers	67099	.50
13	G Mechanical Pencils	67039	.35
14	Traction Mechanical Pencils	67013	.35
15	Cushion Click Mechanical Pencils	66315	.35
16	.7mm Value Lead	61152	.40
17	Study Buddy Inferno	66967	.50
18	6-Color Pens	66685	.75
19	Bracelet Pens	65581	.40
20	Twister Pens	66921	.35

Analyzing Product Price and Sales Data
Product Analysis Worksheet

Place the top 20 school store items in order by retail price from lowest to highest.

	Item Name	RG Item #	Retail Price
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

1. Calculate the average item retail price. Show your work.

2. Calculate the median item retail price.

3. What is the mode item retail price?

4. What is the range of item retail prices? Show your work.

Place the top 20 school store items in order by retail price from lowest to highest.

	Item Name	RG Item #	Retail Price
1	Happy Cap Erasers	64259	$.05
2	Criss Cross Critters	67036	$.15
3	Dessert Erasers	66993	$.15
4	Retro Pencils	67176	$.20
5	Pet Silhouettes Pencils	67175	$.20
6	Astral Wonders Pencils	67124	$.20
7	Erasing Grip	67137	$.35
8	Twister Erasers	67027	$.35
9	G Mechanical Pencils	67039	$.35
10	Traction Mechanical Pencils	67013	$.35
11	Cushion Click Mechanical Pencils	66315	$.35
12	Twister Pens	66927	$.35
13	Bracelet Pens	65581	$.40
14	.7mm Value Lead	61152	$.40
15	Munchin Mike Sharpener	67183	$.50
16	Piranha Sharpener	67037	$.50
17	Mouse Sharpener	65627	$.50
18	Mini Fish Erasers	67099	$.50
19	Study Buddy Inferno	66967	$.50
20	6-Color Pens	66685	$.75

1. Calculate the average item retail price. Show your work.

   a. $7.10/20 items = $.355 or $.36

2. Calculate the median item retail price. $.35
        (.05, .15, .20, .35, .40, .50, .75)

3. What is the mode item retail price? $.35 (6 items for .35)

4. What is the range of item retail prices? Show your work.

   a. $.75 - $.05 = $.70

Use the sales data provided in the Weekly Sales Results Spreadsheet to complete this worksheet.

1. Fill in the daily total sales amounts and the total for the week.

	Daily Total Sales
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Total Weekly Sales	

2. Put the daily total sales amounts in order from lowest to highest.

	Daily Total Sales
Total Weekly Sales	

3. Calculate the average daily total sales amount for this week.
   Show your work.

4. What is the median daily total sales amount for the week?

5. What is the range for the daily total sales amounts for the week?

Analyzing Product Price and Sales Data
Sales Analysis Key

Use the sales data provided in the Weekly Sales Results Spreadsheet to complete this worksheet.

1. Fill in the daily total sales amounts and the total for the week.

	Daily Total Sales
Monday	$ 39.75
Tuesday	$ 43.70
Wednesday	$ 42.20
Thursday	$ 46.90
Friday	$ 54.25
Total Weekly Sales	$226.80

2. Put the daily total sales amounts in order from lowest to highest.

	Daily Total Sales
Monday	$ 39.75
Wednesday	$ 42.20
Tuesday	$ 43.70
Thursday	$ 46.90
Friday	$ 54.25
Total Weekly Sales	$226.80

3. Calculate the average daily total sales amount for this week. Show your work.

   $226.80/5 days = $45.36

4. What is the median daily total sales amount for the week?

   $43.70

5. What is the range for the daily total sales amounts for the week?

   $54.25 - $39.75 = $14.50

Use the following summary to assess a student's abilities and performance throughout the lesson. Share this assessment with students at the start of the lesson so that students will understand how they will be assessed prior to beginning the Exploring and Learning section. The tool can be used as a basis for providing feedback to the student. Use the scale below to score each of the following items:

Making Connections:

_____ Student participates in discussion by offering answers to one or more of the questions asked by the teacher.

Exploring and Learning

_____ Student works with partner to calculate weather statistics.

_____ The Weather Data Worksheet contains accurate calculations.

_____ Student works with partner to complete product analysis by calculating average item retail price, the median item retail price, the mode, and the range for the top 20 school store items.

_____ The Product Analysis Worksheet contains accurate calculations.

_____ Student works with partner to complete sales analysis by calculating the average daily total sales amount, the median daily total sales amount, and the range for daily total sales amounts.

_____ The Sales Analysis Worksheet contains accurate calculations.

_____ Student participates in closing discussions by offering answers to one or more of the questions asked by the teacher.

SCALE

4 – Excellent
Student completes the activity, task or assignment with no errors and demonstrates mastery of concepts and/or lesson objectives.

3 – Good
Student completes the activity, task, or assignment with few major errors and demonstrates an understanding of the concepts and/or lesson objectives.

2 – Fair
Student completes the activity, task, or assignment with some major errors and demonstrates difficulty with the concepts and lesson objectives.

1 – Poor
Student does not complete the activity, task, or assignment and demonstrates no understanding of the concepts and/or lesson objectives.