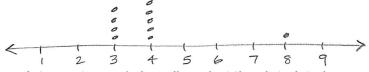
| Name | Date |
|---------|------|
| Teacher | |

6th Grade Math (Statistics) Enrichment #4 (Lesson 28-1)

Ready:

- Alex works in a grocery store after school. Here is the list of hours for a two-week 4, 3, 3, 4, 4, 4, 8, 3, 4, 3 period:
 - Are there any outliers? If so, what are they? What might explain the outlier? (a) Yes the 8 is an outlier. The 8 might represent a Saturday where Alex works 8 hrs in a single day.

 Calculate the mean of the data.
 - (b) 4,3,3,4,4,4,8,3,4,3 the mean = 4 hrs
 - Describe the effect of the outlier on the mean. (c) The outlier increases the mean, without the outlier, the mean is 3.6 hours.
- Construct a dot plot representing the hours Alex worked in the grocery store. 2.



Briefly (in complete sentences) describe what the dot plot shows. 3.

Alex usually works 3 to 4 hours after school. Once he worked 8 hours.

Set:

How many centimeters are in 7 feet, given that 1 inch \approx 2.54 cm. 1 inch \approx 2.54 cm. 7 feet = 84 inches 4.

7# - 12 kg . 2.54 cm

- 5. Ms. Spain and Mr. France have donated a total of 90 hot dogs and 72 bags of chips for the class picnic. Each student will receive the same amount of refreshments. All refreshments must be used.
 - What is the greatest number of students that can attend the picnic GCF = 18 student (a)
 - How many bags of chips will each student receive? 4 bags of chips (b)
 - How many hot dogs will each student receive? 5 hot dogs (c)
- 6. Write the algebraic expression:
 - (b)
- Page | 7

Go:

7. The following table lists four of the greatest New York Yankees' home run hitters with the number of homeruns each hit while a Yankee.

Adapted from: James M. Landwehr and Ann E. Watkins, Dale Seymour Publications, Mathematics, 1986, Pg. 160

| Babe Ruth | | Lou Gehrig | | Mickey | Mickey Mantle | | Roger Maris | |
|-----------|--|--|--|--------|---------------|--|-------------------------|--|
| Year | Home 6 runs | Year | Home runs | Year | Home runs | Year | Home runs | |
| 1920 | 54 | 1923 | 1 | 1951 | 13 | 1960 | 39 | |
| 1921 | 59 | 1924 | 0 | 1952 | 23 | 1961 | 61 | |
| 1922 | 35 | 1925 | 20 | 1953 | 21 | 1962 | 33 | |
| 1923 | 41 | 1926 | 16 | 1954 | 27 | 1963 | 23 | |
| 1924 | 46 | 1927 | 47 | 1955 | 37 | 1964 | 26 | |
| 1925 | 25 | 1928 | 27 | 1956 | 52 | 1965 | 8 | |
| 1926 | 47 | 1929 | 35 | 1957 | 34 | 1966 | 13 | |
| 1927 | 60 | 1930 | 41 | 1958 | 42 | | | |
| 1928 | 54 | 1931 | 46 | 1959 | 31 | | | |
| 1929 | 46 | 1932 | 34 | 1960 | 40 | | | |
| 1930 | 49 | 1933 | 32 | 1961 | 54 | | | |
| 1931 | 46 | 1934 | 49 | 1962 | 30 | | | |
| 1932 | 41 | 1935 | 30 | 1963 | 15 | | | |
| 1933 | 34 | 1936 | 49 | 1964 | 35 | | | |
| 1934 22 | 22 | 1937 | 37 | 1965 | 19 | | | |
| | | 1938 | 29 | 1966 | 23 | | | |
| | | 1939 | 0 | 1967 | 22 | Manager of the Street Service Street Service Constitution of the Service Servi | - | |
| | A Charles to the control of the cont | AND THE PROPERTY OF THE PARTY O | SCHOOL SALES AND | 1968 | 18 | MEET SUPPLE SAID, THE SUPPLE SET SUCH AS CONTROL OF SAID SAID. | ACCIDATE NOTE INCIDENCE | |

Find the mean number of home runs for each player.

Babe Ruth = $\frac{659}{15} \approx 43.9$ Low Gehrig: $\frac{493}{17} = 29$

8. Create a dot plot using Babe Ruth's home runs. Identify the mean on your dot plot.