

Name Date Teacher

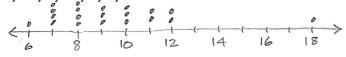
6th Grade Math (Statistics) Enrichment #5 (Lesson 28-2)

Ready:

All the students on your track team are timed as they run one mile. Here are the times rounded to the nearest minute:

7, 9, 12, 11, 8, 9, 18, 10, 6, 11, 9, 8, 7, 8, 10, 8, 12, 7, 7, 10

Construct a dot plot for the times listed above.



2. Find the median of the times with the outlier and without the outlier.

3. What is the mean of the times?

Set:

A sixth grade class must raise at least \$100 to go on a field trip. They have collected \$20 so far. Write an inequality to represent the amount of money, m, the class still needs to raise. Represent this inequality on a number line. m +20 = 100 $m \geq 80$



Write an expression or equation for the following:

- An amusement park charges \$28 to enter and \$0.35 per ticket. Write an $\frac{28+0.35\times1}{2}$ (a) algebraic expression to represent the number of crayons that Maria has.

 amount of money required at the park.
- Andrew has a summer job doing yard work. He is paid \$15 per hour and a \$20 (b) bonus when he completes the yard. He was paid \$85 for completing one yard. Write an |5x + 20 = 85| x = # of hrsequation to represent the amount of money he earned.
- 6. Evaluate the following expression when x=4 and y=2.

$$\frac{x^2 + y^2}{3} = \frac{4^2 + 2^2}{3} = \frac{16 + 4}{3} = \boxed{\frac{20}{3}}$$

Go:

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

Babe Ruth		Lou Gehrig		Mickey Mantle		Roger Maris	
Year	Home runs	Year	Home runs	Year	Home runs	Year	Home runs
1920	54 6	1923	1 .	1951	13 -	1960	39
1921	59 ,	1924	0.	1952	23 0	1961	61
1922	35 0	1925	20 •	1953	21 •	1962	33
1923	41 *	1926	16 6	1954	27 •	1963	23
1924	46 0	1927	47 0	1955	37 0	1964	26
1925	250	1928	27 •	1956	52	1965	8
1926	476	1929	35 •	1957	34 0	1966	13
1927	60 0	1930	41 "	1958	42 6		
1928	54 0	1931	46 •	1959	31.		
1929	46 0	1932	34 •	1960	40 0		
1930	49 0	1933	32 •	1961	54		
1931	46 e	1934	49	1962	30 -		
1932	41 •	1935	30 .	1963	15 6		
1933	34 0	1936	49	1964	35 0		
1934	22 0	1937	37 •	1965	19 .		
		1938	29 .	1966	23 •	administration in the second	
		1939	0 ,	1967	22 •	With district the delicated to the Lorder was clearly as	
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Source: Macmillan Baseball Encyclopedia, 4th edition

Find the median of the home runs for each player.

Babe Ruth 22 25 34 35 4141 46 (46) 46 47 49 54 54 59 60 median = 46

Low Gehrig 0 0 1 16 20 27 29 30 (32) 34 35 37 41 46 47 49 49 median = 32

8. Referring back to the previous lesson (Enrichment #4), of the two values, mean and median, that you computed for each player, which do you think best describes the performance of each player? Explain why.

Mickey Mantle 13 15 18 19 21 22 23 23 27 30 31 34 35 37 40 42 52 54 median = 28.5

Roger Maris 8 13 23 26 33 39 61 median = 26

A I think that the median best describes the performance because Page 10 it is not affected by the outliers that appear in Lou Gehrig and Roger Maris' data.