Algebra 2 Bellwork Tuesday, June 2, 2015

Make a Box-and-Whisker Plot for each set of data. Put the Monday League above the number line and the Thursday League below the number line.

Monday scores: 176, 212, 220, 110, 210, 206, 195, 220, 188, 180, 250, 214, 113, 218, 240 Thursday scores: 140, 145, 157, 160, 166, 168, 174, 186, 195, 206, 210, 217, 219, 220

Monday League

Thursday League

Use this set of data:

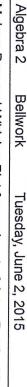
23, 39, 45, 46, 49, 50, 51, 51, 51, 68, 68, 71, 73, 82, 88, 89, 92, 95, 98, 99

- 6. 95 is at what percentile?
- 7. 51 is at what percentile?
- 8. What number is at the 20th percentile?
- 9. What number is at the 65th percentile?

Answer these questions using the Box-and-Whisker Plots you made

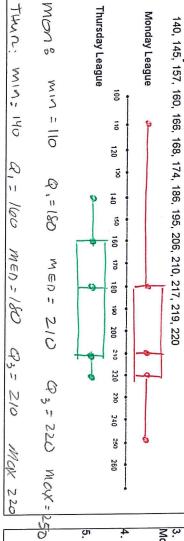
- 1. If you bowled 210 in the Thursday league you are better than what % of the bowlers in your le
- 2. If you bowled 160 in the Monday league you are better than what % of the bowlers in your leag
- If you bowled 220 in the Thursday league you are the best bowler on Thursday night. What % Monday bowlers are better than you?
- 4. If you normally bowl 190 which league would you rather join? Explain.
- 5. If you normally bowl 140 which league would you rather join? Explain

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above the number line and the Thursday League below the number line Make a Box-and-Whisker Plot for each set of data. Put the Monday League

Monday League Monday scores: 176, 212, 220, 110, 210, 206, 195, 220, 188, 180, 250, 214, 113, 218, 240 Thursday scores: 140, 145, 157, 160, 166, 168, 174, 186, 195, 206, 210, 217, 219, 220



Answer these questions using the Box-and-Whisker Plots you made.

- 1. If you bowled 210 in the Thursday league you are better than what % of the bowlers in your leads
- 2. If you bowled 160 in the Monday league you are better than what % of the bowlers in your leag \sim 25% or 0% \sim 25%
- 3. If you bowled 220 in the Thursday league you are the best bowler on Thursday night. What % Monday bowlers are better than you? $\gamma \subset V$
- 4. If you normally bowl 190 which league would you rather join? Explain
- 5. If you normally bowl 140 which league would you rather join? Explain

Use this set of data: 20, 45, 46, 49, 50, 51, 51, 51, 68, 68, 71, 73, 82, 88, 89, 92, 95, 98, 99

6. 95 is at what percentile?
$$\frac{17}{20} = \frac{85^{+h}}{85^{+h}} \frac{\text{percentile}}{\text{percentile}}$$

7. 51 is at what percentile? $\frac{1}{20} = \frac{30^{+h}}{20^{+h}} \frac{\text{percentile}}{\text{percentile}}$

8. What number is at the 20th percentile? $\frac{1}{20} = \frac{30^{+h}}{100^{+h}} \frac{\text{percentile}}{\text{percentile}}$

What number is at the 65th percentile?

(20#s)(, (05) = 13 #s below -