

*Each WA is worth 10 points. Work right on these pages, then scan and upload or give to me in print. You can work together or see a tutor, but NEVER copy. This WA is for a grade, so dishonesty or cutting corners may earn a 0 for all involved.*

1. [1 pt] In a sentence, state the “Big Rule” involved in using number sense to perform measurement conversions.

2. [3 pts - 1.5 each] Demonstrate “number sense” thinking to convert below. This method requires 1-2 sentences explaining why we choose to multiply versus divide. Clearly indicate and label your answers, rounded to the nearest tenth if needed.

(a)  $73.2 \text{ yards} = \underline{\quad? \quad} \text{ ft}$

(b)  $163.7 \text{ hours} = \underline{\quad? \quad} \text{ days}$

3. [6 pts - 2 each] Use well-labeled proportional equations and show work to perform the conversions below. If needed, round answers to same number of positions as other decimal numbers in the problem.

(a) Convert 15.8 quarts to gallons.

(b)  $14.3 \text{ in} = \underline{\quad?} \text{ cm}$ , given that  $2.54 \text{ cm} = 1 \text{ inch}$

(c) Convert 16.47 blings to fumbles, given that 5 fumbles equal 18 blings.