

5. Convert the following measurements
- a. $512 \text{ in} = \underline{\hspace{1cm}} \text{ yd } \underline{\hspace{1cm}} \text{ ft } \underline{\hspace{1cm}} \text{ in}$
 - b. $39.5 \text{ ft} = \underline{\hspace{1cm}} \text{ yd } \underline{\hspace{1cm}} \text{ ft } \underline{\hspace{1cm}} \text{ in}$
 - c. $47 \text{ tsp} = \underline{\hspace{1cm}} \text{ gal } \underline{\hspace{1cm}} \text{ qts } \underline{\hspace{1cm}} \text{ cups } \underline{\hspace{1cm}} \text{ Tbsp } \underline{\hspace{1cm}} \text{ tsp}$
 - d. $79 \text{ Tbsp} = \underline{\hspace{1cm}} \text{ gal } \underline{\hspace{1cm}} \text{ qts } \underline{\hspace{1cm}} \text{ cups } \underline{\hspace{1cm}} \text{ Tbsp } \underline{\hspace{1cm}} \text{ tsp}$
 - e. $5144 \text{ seconds} = \underline{\hspace{1cm}} \text{ hours } \underline{\hspace{1cm}} \text{ minutes } \underline{\hspace{1cm}} \text{ seconds}$
6. Please explain what the work in Numbers 1-5, which is an important component of the elementary school mathematics curriculum, has to do with working in different bases.