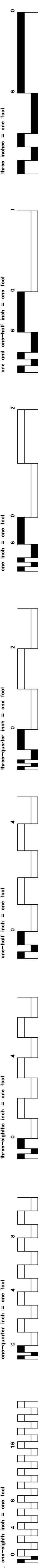
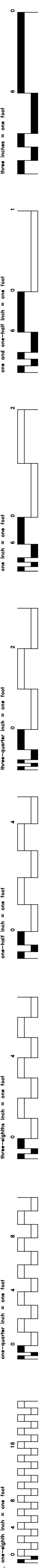


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**Figure 6** illustrates the construction of the  $\text{P}_n$ -tree from the  $\text{P}_{n-1}$ -tree by adding new nodes at depth  $n$ . The figure shows two examples: one for  $n=1$  and one for  $n=2$ .

- Left Example ( $n=1$ ):** A root node labeled "one-third inch = one foot" has three children. The left child is labeled "one-half inch = one foot", the middle child is labeled "one-quarter inch = one foot", and the right child is labeled "one-eighth inch = one foot".
- Right Example ( $n=2$ ):** A root node labeled "one-third inch = one foot" has three children. The left child is labeled "one-half inch = one foot", the middle child is labeled "one-quarter inch = one foot", and the right child is labeled "one-eighth inch = one foot". Each of these children has further children, illustrating the recursive construction.

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