

6. Find the GCF and LCM of x and y .

$$x = r^5 s^7 t^8 u^9 v w^{40}$$

$$y = r^{14} s^{33} t^{11} u v^{10} w^{10}$$

7. Benjamin has 84 dimes and 54 quarters. He likes arranging things neatly, and wants to try to make columns of dimes and columns of quarters so that each column has the same number of coins and none are left over. What is the greatest number of coins he can have in one column?
8. Samira is laying out a rectangular walkway using blocks that are all the same widths, 12 inches, but of three different lengths: 16 inches, 24 inches, and 32 inches. She wants to build the walkway using one row of each size block. What would be the shortest walkway she could construct so that the rows line up evenly at both ends? How many blocks of each length are used?