Properties of Multiplication

Use rectangles and the Distributive Property to solve problems 1-6.

1. Rob had 5 coins in his coin collection before he went to two coin shows. At the first coin show, Rob collected 7 times the amount of coins he had before the show. At the second coin show, Rob collected 2 times the number of coins he had after the first show. How many coins did Rob have after the second coin show?

\[5 \times 7 \times 2 = 5 \times \underline{\quad} \times 7\]
\[= \underline{\quad} \times 7\]
\[= \underline{\quad} \text{ coins}\]

2. Mary has 25 blue beads. She has 3 times as many red beads as blue beads. She has 4 times as many yellow beads as red beads. How many yellow beads does Mary have?

\[(3 \times 25) \times 4 = \underline{\quad} \times (\underline{\quad} \times \underline{\quad})\]
\[= \underline{\quad} \times \underline{\quad}\]
\[= \underline{\quad} \text{ yellow beads}\]

3. The third grade planted 4 trees on Arbor Day. The fourth grade planted 7 times the number of trees as third grade planted. The fifth grade planted 5 times the number of trees as the fourth grade. How many trees did the fifth grade plant?

________________________________________

4. Cans of pineapple juice come in packs of 6 cans. Packs of pineapple juice are placed in cartons with 4 packs in each carton. Cartons are placed in boxes with 50 cartons in each box. How many cans of pineapple juice are in 1 box?

________________________________________

5. Maria had saved $4.50. Her mother gave her 2 times that amount to buy gifts for her sisters. In order to triple the total amount of money she had, Maria shoveled snow and did other chores. How much money does Maria have in all?

________________________________________

6. Benny made bundles of 5 candles. He put the bundles in bags with 7 bundles in each bag. He placed the bags in crates with 6 bags in each crate. Then he packed boxes with 8 crates in each box. How many candles were in each box? How many candles were in each box?

________________________________________