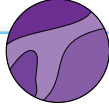



Homework & Practice 2-10

Look For and Use Structure

Another Look! Karen has 5 purple marbles and 4 yellow marbles. She can only fit 5 marbles in her pocket. What are the different ways she can put purple and yellow marbles in her pocket? Use a pattern to help you solve the problem. Then complete the table to show all the ways Karen can put the marbles in her pocket.

The sum of the numbers in each row is 5.

| | |
|---|---|
|  |  |
| 5 | 0 |
| 4 | 1 |
| 3 | 2 |
| 2 | 3 |
| 1 | 4 |

HOME ACTIVITY Collect 5 each of two small objects, such as buttons and paperclips. Put 5 buttons in a row. Ask your child, "How many buttons? How many paperclips?" Then replace 1 button with a paperclip and ask the questions again. Continue replacing buttons with paperclips one at a time, asking the questions after each turn. Then ask, "What is the total each time?"





Use structure to find patterns to help you solve the problems below.

1. Tom has 5 toy cars. He can put them away in his toy box or on a shelf. Complete the table to show all the ways Tom can put away his toy cars.

| Box | Shelf |
|-------|-------|
| 5 | _____ |
| _____ | 1 |
| _____ | _____ |
| 2 | _____ |
| _____ | 4 |
| _____ | _____ |



2. Kathy has 5 tulips and 5 roses. She wants to plant 5 flowers in her garden. Complete the table to show all the ways Kathy can plant the flowers in her garden.

| | |
|---|---|
|  |  |
| 0 | _____ |
| _____ | _____ |
| _____ | 3 |
| 3 | _____ |
| _____ | 1 |
| 5 | _____ |

© Performance Assessment

Making a Fruit Bowl

Bill has 5 apples and 5 bananas. He can only put 5 pieces of fruit in a bowl. How can Bill make a table to show the different ways he can put fruit in the bowl?

| | |
|--|---|
|  |  |
| 0 | |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |

3. **MP.8 Generalize** What will be the same in each row of the table?

4. **MP.2 Reasoning** Will the number of bananas get smaller or larger as you move down the table? How do you know?

5. **MP.7 Look for Patterns** Write the missing numbers in the table. How do you know your answers are correct?
