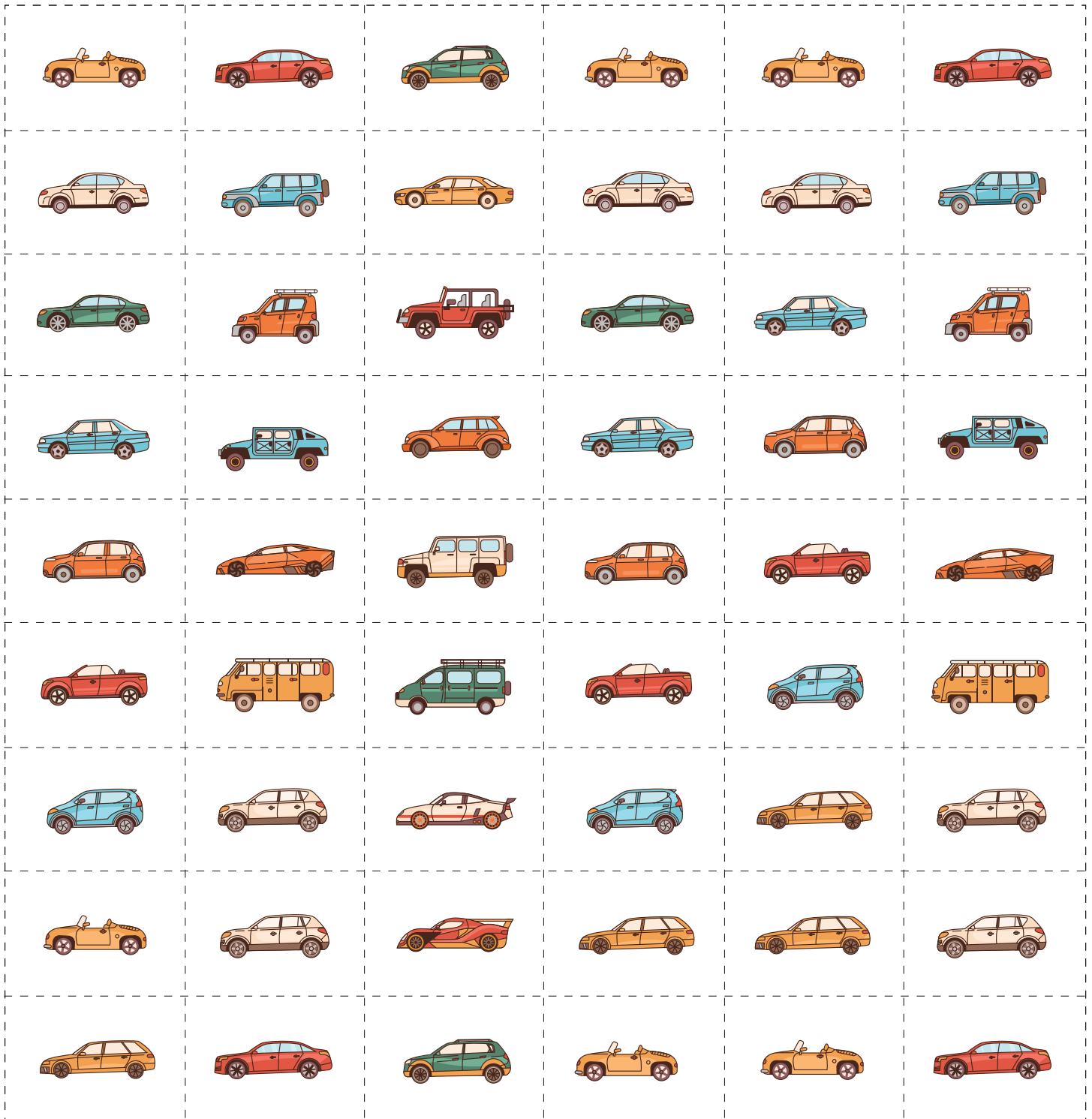


Practice Problems:

Parking Lot Multiplication

Cut the individual cars and arrange them in arrays to help you solve the following multiplication problems.



Practice Problems:

Parking Lot Multiplication

Use your cars to answer questions 1 and 2.

Then answer question 3.

1. The upper level of a parking lot has space for a 6×4 array of cars.
How would that array look? How many cars can fit on the upper level in total?

Total:

Practice Problems:

Parking Lot Multiplication

Use your cars to answer questions 1 and 2.

Then answer question 3.

2. The lower level of a parking lot has space for a 4×6 array of cars.
How would that array look? How many cars can fit on the lower level in total?

Total:

Practice Problems:

Parking Lot Multiplication

Use your cars to answer questions 1 and 2.

Then answer question 3.

3. Now that you have answered both Part A and B, what do you notice about the car arrangements? How does your work show the commutative property of multiplication?

Practice Problems:**Parking Lot Multiplication**

Use what you know about arrays and the Commutative Property of Multiplication to solve problems 4, 5, and 6.

4. Engineers are planning to build new parking lots for a stadium. Lot 1 can fit 48 cars, but the engineers are trying to figure out the best arrangement for the cars. Using dots, show four array possibilities for Parking Lot 1. Label each array as a multiplication problem. Circle two arrays that represent the Commutative Property of Multiplication.

Practice Problems:**Parking Lot Multiplication**

Use what you know about arrays and the Commutative Property of Multiplication to solve problems 4, 5, and 6.

5. Engineers are planning to build new parking lots for a stadium. Lot 2 can fit 36 cars, but the engineers are trying to figure out the best arrangement for the cars. Using dots, show four array possibilities for Parking Lot 2. Label each array as a multiplication problem. Circle two arrays that represent the Commutative Property of Multiplication.

Practice Problems:**Parking Lot Multiplication**

Use what you know about arrays and the Commutative Property of Multiplication to solve problems 4, 5, and 6.

6. Engineers are planning to build new parking lots for a stadium. Lot 3 can fit 64 cars, but the engineers are trying to figure out the best arrangement for the cars. Using dots, show four array possibilities for Parking Lot 3. Label each array as a multiplication problem. Circle two arrays that represent the Commutative Property of Multiplication.