

Practice Breaking Apart Numbers to Multiply

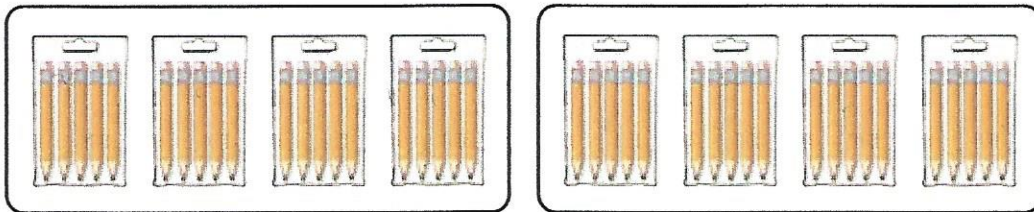
Solve the problems.

- 1 Tucker solved 7×5 by breaking it apart as shown below.

$$(7 \times 3) + (7 \times \underline{\quad})$$

What number belongs in the blank?

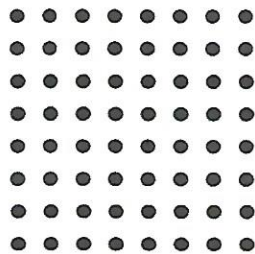
- A 1
B 2
C 4
D 8
- 2 Cole has 8 packs of pencils. There are 5 pencils in each pack. He wants to know how many pencils he has in all. The model below shows how he breaks apart one number in the problem.



Which expression shows how Cole solves the problem?

- A $(4 \times 5) + (4 \times 5)$
B $(8 \times 2) + (8 \times 2)$
C $(4 \times 2) + (4 \times 2)$
D $(3 \times 5) + (5 \times 5)$

- 3 Use the array below to solve 8×8 . First draw circles to break the array into two groups. Then fill in the blanks to show how you broke the numbers apart.



$$8 \times 8 = (8 \times \underline{\quad}) + (8 \times \underline{\quad})$$

- 4 Is each expression equivalent to the product of 6 and 9? Choose *Yes* or *No*.

- a. $(6 \times 3) + (6 \times 3)$ Yes No
- b. $(6 \times 4) + (6 \times 5)$ Yes No
- c. $6 \times (6 + 3)$ Yes No
- d. $9 \times (2 + 4)$ Yes No
- e. $(9 \times 3) + (9 \times 3)$ Yes No

- 5 There are 9 rows in Mrs. Mitchell's flower garden. Each row has 9 flowers planted in it. How many flowers are planted in the garden? Show how to break apart the numbers to find the answer.

Answer There are _____ flowers in the garden.