



Use the Associative Property

CA Standard
AF 1.5

Fran and John each do homework for 3 hours a day. How many hours in all do they do homework on 3 days?

Find the product of $2 \times 3 \times 3$.

You can multiply 2×3 first.
 $(2 \times 3) \times 3$



$$2 \times 3 = 6$$

Now multiply 6 by the other factor, 3.



$$(2 \times 3) \times 3$$

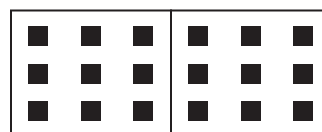
$$6 \times 3 = 18$$

You can multiply 3×3 first.
 $2 \times (3 \times 3)$



$$3 \times 3 = 9$$

Now multiply 9 by the other factor, 2.



$$2 \times 9 = 18$$

Solution: They do homework for 18 hours.

Find the product. Multiply factors in parentheses first.

1. $(2 \times 4) \times 3 = \underline{\quad}$ 2. $4 \times (2 \times 5) = \underline{\quad}$ 3. $(7 \times 1) \times 6 = \underline{\quad}$

$2 \times (4 \times 3) = \underline{\quad}$ $(4 \times 2) \times 5 = \underline{\quad}$ $7 \times (1 \times 6) = \underline{\quad}$



Writing Math Why is the product of $2 \times 3 \times 1$ the same as $3 \times 1 \times 2$? Explain.
