

# ASSOCIATIVE PROPERTY

# ANSWERS

## YOU CAN REGROUP

WHEN YOU'RE MULTIPLYING, YOU CAN REGROUP NUMBERS AND STILL GET THE SAME ANSWER.

YOU HAVE TO DO THE OPERATIONS INSIDE THE PARENTHESES FIRST.

## HELPFUL EXAMPLE

$$4 \times (5 \times 7) \quad \text{SAME AS} \quad (4 \times 5) \times 7$$
$$4 \times 35 \quad \quad \quad 20 \times 7$$
$$140 \quad \quad \quad 140$$

YOU CAN MOVE THE PARENTHESES TO MAKE A DIFFERENT GROUP, WHICH CAN MAKE THE PROBLEM EASIER TO SOLVE.

## Regroup and solve. SHOW YOUR WORK.

a.  $(13 \times 5) \times 2$   
=  $13 \times (5 \times 2)$   
=  $13 \times 10$   
=  $130$

REWRITE THE PARENTHESES TO MAKE THE PROBLEM EASIER.

1.  $25 \times (4 \times 8)$   
**800**

2.  $5 \times (4 \times 14)$   
**280**

3.  $(7 \times 15) \times 2$   
**210**

4.  $5 \times (2 \times 23)$   
**230**

5.  $(39 \times 4) \times 25$   
**3,900**

6.  $5 \times (2 \times 47)$   
**470**

7.  $(9 \times 25) \times 4$   
**900**

8.  $20 \times (5 \times 43)$   
**4,300**

9.  $(31 \times 5) \times 4$   
**620**

10.  $(7 \times 4) \times 15$   
**420**

11.  $5 \times (6 \times 8)$   
**240**

## Change the order, group, and solve. SHOW YOUR WORK.

b.  $2 \times 35 \times 5$   
=  $35 \times 2 \times 5$   
=  $35 \times (2 \times 5)$   
=  $35 \times 10$   
=  $350$

CHANGE THE ORDER.

GROUP THE NUMBERS.

SOLVE.

12.  $20 \times 53 \times 5$   
**5,300**

13.  $25 \times 93 \times 4$   
**9,300**

14.  $50 \times 17 \times 2$   
**1,700**

15.  $4 \times 42 \times 5$   
**840**

16.  $2 \times 9 \times 15$   
**270**