

STUDY LINK
9•1

Multiplying Sums



1. For each expression in the top row, find one or more equivalent expressions below it. Fill in the oval next to each equivalent expression.

a. $(8 + 7) * 4$

b. $(6 * 5) + (6 * 8)$

c. $3 * (9 + 4)$

☐ $(8 * 4) + (7 * 4)$

☐ $(8 * 6) + (5 * 6)$

☐ $(9 + 4) * (3 + 4)$

☐ $4 * (7 + 8)$

☐ $6 * (5 + 8)$

☐ $9 * (3 + 4)$

☐ $(8 + 4) * 7$

☐ $(8 + 5) * 6$

☐ $(4 + 9) * 3$

☐ $(8 + 4) * (7 + 4)$

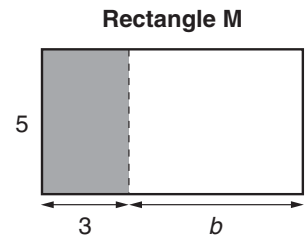
☐ $(6 + 5) * (6 + 8)$

☐ $(9 * 3) + (4 * 3)$

2. The area of Rectangle M is 45 square units.

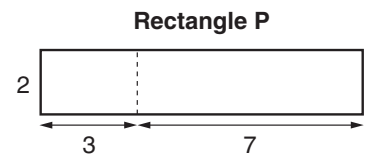
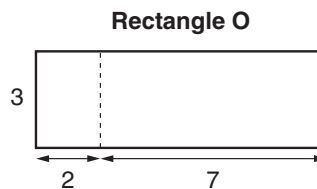
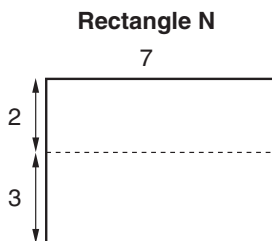
a. What is the value of b ? _____

b. Write 2 different number sentences to describe the area of the unshaded part of Rectangle M.



$(\text{---} - \text{---}) * \text{---} = \text{---}$ $(\text{---} * \text{---}) - (\text{---} * \text{---}) = \text{---}$

3. Each of the following expressions describes the area of one of the rectangles below. Write the letter of the rectangle next to its expression.



a. $(3 + 2) * 7$ _____

b. $(2 * 3) + (7 * 3)$ _____

c. $(7 + 2) * 3$ _____

d. $(3 * 7) + (2 * 7)$ _____

e. $2 * (7 + 3)$ _____

f. $3 * (2 + 7)$ _____

4. Sandra wants to buy envelopes and stamps to send cards to 8 friends. Envelopes cost \$0.10 and stamps cost \$0.39. How much will she spend? _____

Write a number model to show how you solved the problem.