Match the algebraic expressions with their corresponding array models by placing A, B, C or D into the box
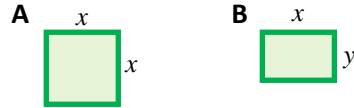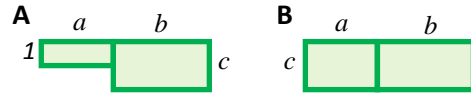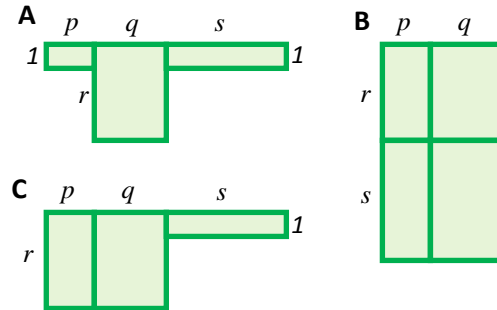
1. $x \times y = \boxed{}$
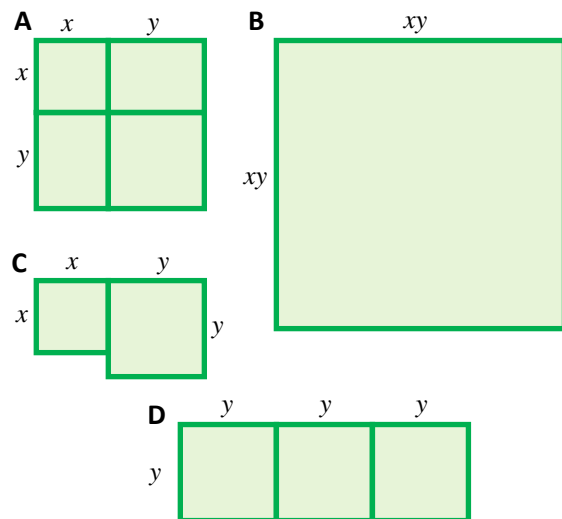
$x^2 = \boxed{}$

A

B

2. $a + b \times c = \boxed{}$

$(a + b) \times c = \boxed{}$

A

B

3. $(p + q) \times (r + s) = \boxed{}$

$p + q \times r + s = \boxed{}$

$(p + q) \times r + s = \boxed{}$

A

B

C

4. $x^2 + y^2 = \boxed{}$

$3 \times y^2 = \boxed{}$

$(x \times y)^2 = \boxed{}$

$(x + y)^2 = \boxed{}$

A

B

C

D

5. Is $x^2 + y^2 = (x + y)^2$? _____

Justify your answer: