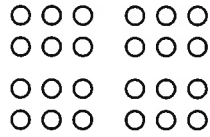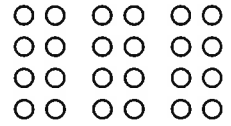# It's Great to Associate!

*The **associative property**: Changing how the factors are grouped does not change the product.*

4 x
4 groups of

$(2 \times 3) = (4 \times 2)$

x 3
3 groups of

4 x (2 x 3)
4 groups of the array (2 x 3)

equals

(4 x 2) x 3
3 groups of the array (4 x 2)

Finish each multiplication sentence and draw an array to show the associative property. Write the product in the circle.

A.

2 x (5 x 3) = (2 x 5) x 3

○○○○○ ○○○○○ ○○○○○ (30)
○○○○○ ○○○○○ ○○○○○

B.

(2 x 6) x 5

○

C.

(4 x 6) x 2 =

○

D.

3 x (2 x 8) =

○

E.

3 x (7 x 2) =

○

F.

8 x (1 x 5) =

○

G.

(4 x 3) x 2 =

○

H.

(9 x 2) x 3 =

○