

I can use the associative property to group factors and solve.

1 $8 \times 2 \times 5$

2 $2 \times 3 \times 4$

3 $3 \times 3 \times 6$

4 $2 \times 4 \times 7$

5 $2 \times 3 \times 3$

6 $2 \times 2 \times 3$

7 $9 \times 2 \times 2$

8 $10 \times 2 \times 5$

9 $2 \times 4 \times 8$

10 $4 \times 2 \times 4$

11 $7 \times 2 \times 2$

12 $6 \times 4 \times 2$

A

B

C

D

E

F

12

100

56

32

54

28

48

24

36

80

18

64

G

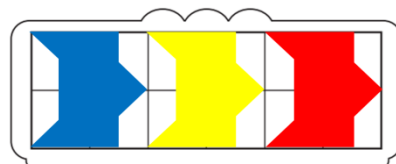
H

I

J

K

L



Objective: 3.OA.5 - Associative Property

I can use the associative property to group factors and solve.

1 $8 \times 3 \times 2$

2 $3 \times 3 \times 9$

3 $6 \times 3 \times 4$

4 $2 \times 4 \times 2$

5 $7 \times 5 \times 2$

6 $3 \times 4 \times 5$

7 $2 \times 2 \times 7$

8 $4 \times 2 \times 5$

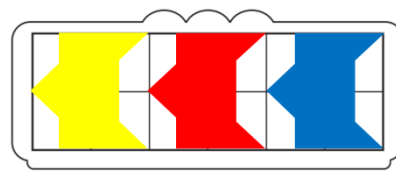
9 $4 \times 3 \times 3$

10 $3 \times 2 \times 9$

11 $7 \times 2 \times 3$

12 $3 \times 3 \times 5$

A	B	C	D	E	F
28	48	70	36	45	81
16	54	72	42	60	40
G	H	I	J	K	L

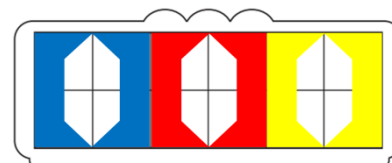


Objective: 3.OA.5 - Associative Property

I can use the associative property to group factors and solve.
Match each expression below with the other way to group factors.

- 1 $(9 \times 5) \times 2$
- 2 $(8 \times 3) \times 4$
- 3 $(7 \times 2) \times 3$
- 4 $(6 \times 4) \times 3$
- 5 $(4 \times 2) \times 3$
- 6 $(11 \times 4) \times 2$
- 7 $(5 \times 5) \times 2$
- 8 $(9 \times 4) \times 2$
- 9 $(7 \times 3) \times 4$
- 10 $(12 \times 4) \times 3$
- 11 $(9 \times 3) \times 3$
- 12 $(11 \times 2) \times 5$

A	B	C	D	E	F
$7 \times (3 \times 4)$	$7 \times (2 \times 3)$	$8 \times (3 \times 4)$	$11 \times (4 \times 2)$	$9 \times (5 \times 2)$	$6 \times (4 \times 3)$
$9 \times (3 \times 3)$	$4 \times (2 \times 3)$	$9 \times (4 \times 2)$	$11 \times (2 \times 5)$	$12 \times (4 \times 3)$	$5 \times (5 \times 2)$
G	H	I	J	K	L



Objective: 3.OA.5 - Associative Property

I can use the associative property to group factors and solve.
Match each expression below with its equivalent expression.

1 $8 \times (2 \times 3)$

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

3 $5 \times (4 \times 3)$

4 $8 \times (2 \times 2)$

5 $(4 \times 2) \times 7$

6 $9 \times (2 \times 5)$

7 $12 \times (4 \times 2)$

8 $(3 \times 3) \times 9$

9 $2 \times (3 \times 4)$

10 $6 \times (3 \times 3)$

11 $(4 \times 2) \times 8$

12 $11 \times (5 \times 2)$

A

B

C

D

E

F

9×10

9×2

8×4

8×6

5×12

2×12

9×9

11×10

6×9

12×8

8×8

8×7

G

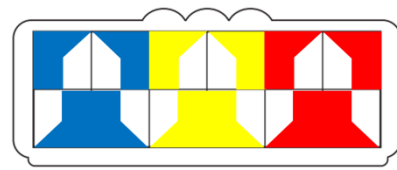
H

I

J

K

L

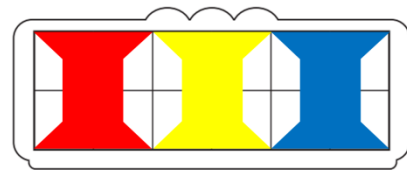


Objective: 3.OA.5 - Associative Property

I can use the associative property to group factors and solve.
Match each expression below with its equivalent expression.

- 1 9×12
- 2 8×7
- 3 2×9
- 4 5×6
- 5 8×8
- 6 7×12
- 7 11×9
- 8 12×12
- 9 9×8
- 10 6×9
- 11 12×8
- 12 4×7

A	B	C	D	E	F
$2 \times (3 \times 3)$	$(3 \times 3) \times 8$	$5 \times (3 \times 2)$	$9 \times (3 \times 4)$	$7 \times (6 \times 2)$	$(4 \times 2) \times 7$
$(2 \times 4) \times 8$	$(3 \times 4) \times 8$	$11 \times (3 \times 3)$	$6 \times (3 \times 3)$	$(2 \times 2) \times 7$	$(4 \times 3) \times 12$
G	H	I	J	K	L



Objective: 3.OA.5 - Associative Property