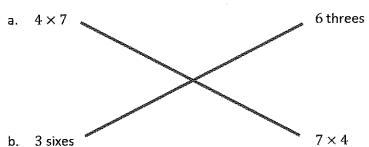
G3-M3-Lesson 1

1. Write two multiplication facts for each array.

This array shows 3 rows of 7 dots, or 3 sevens. 3 sevens can be written as $3 \times 7 = 21$. I can also write it as $7 \times 3 = 21$ using the commutative property.



2. Match the expressions.



The commutative property says that even if the order of the factors changes, the product stays the same!

3. Complete the equations.

a.
$$7 \times \underline{2} = \underline{7} \times 2$$

= $\underline{14}$

This equation shows that both sides equal the same amount. Since the factors 7 and 2 are already given, I just have to fill in the unknowns with the correct factors to show that each side equals 14.

b.
$$6 \text{ twos} + 2 \text{ twos} = 8 \times 2$$

$$= 16$$

This equation shows the break apart and distribute strategy that I learned in Module 1. 6 twos + 2 twos = 8 twos, or 8×2 . Since I know $2 \times 8 = 16$, I also know $8 \times 2 = 16$ using commutativity. Using commutativity as a strategy allows me to know many more facts than the ones I've practiced before.