Multiplication Equations as a Comp. - Guided Lesson Explanation

Explanation to #1

Step 1) First, we have to know what needs to be done.

"Which equation shows the commutative property of multiplication?"

Step 2) Commutative property:
You can multiply numbers in any order and get the same product.

$8 \times 1 = 1 \times 8$

This equation shows the commutative property. The order of the factors is changed.

So the answer is d.

Explanation to #2

Step 1) First, we have to know what needs to be done.

"Identify which math sentence indicates that 30 is 5 times as many as 6"

Step 2) By multiplying 5 to 6, the result should be 30.

$30 = 5 \times 6$

So option c is answer.

Explanation to #3

Step 1) First, we have to know what we have to find out.

"Which property of multiplication is displayed in this problem?"

Step 2) As we know

Commutative property of multiplication – It does not matter what order you multiply numbers in, the product is always the same:

$a \times b = b \times a$

Associative property of multiplication – When you multiply three numbers or more, it does not matter what order the factors are in the final product is always the same.

$(a \times b) \times c = a \times (b \times c)$

Distributive property of multiplication - When you multiply a number by two numbers that are being added, the final value is equal to the sum that number times each number individually.

For example $a \times (b + c) = a \times b + a \times c$

Identity property of multiplication – If you multiply a number by one, the product is the number itself.

$a \times 1 = a$

By observing all properties carefully, we can say that this is the distributive property of multiplication.

So, the answer is C.