## Exercise 2

Complete each statement and name the property of real numbers you have used.
(a) $a b=$ $\qquad$ ; $\qquad$ Property
(b) $a+(b+c)=$ $\qquad$ ; $\qquad$ Property
(c) $a(b+c)=$ $\qquad$ ; $\qquad$ Property

## Solution

$$
\begin{aligned}
& a b=b a \quad \text { commutative property of multiplication } \\
& a+(b+c)=(a+b)+c \quad \text { associative property of addition } \\
& a(b+c)=a b+a c \quad \text { distributive property } \\
& a(b+c)=(b+c) a \quad \text { commutative property of multiplication }
\end{aligned}
$$

