1. A rectangular garden is 4 feet long and 7 feet wide. If the width is increased by $x$ feet, which expression could be used to calculate the area of the garden?
A $4(7 x)$
B $4(7)+4(x)$
C $4(7)+(x)$
D $\quad 4(7 x)+4$
2. Joel spent $\$ 90$ at the grocery store before sales tax. Sales tax on food is $2 \%$. Which expression would calculate the final price of Joel's groceries?
A 90(1.02)
B $90(0.98)$
C $90-2$
D $\quad 90+2$
3. An oil change costs $\$ 39$. Jessica has a coupon for $10 \%$ off before sales tax is calculated at $7 \%$. Which expression can Jessica use to calculate her total cost?
A $\quad(39)(0.9)(0.07)$
C $\quad(39)(0.1)(0.07)$
B $\quad(39)(0.9)(1.07)$
D (39)(0.1)(1.07)
4. At a skate shop, all skateboards are on sale for $35 \%$ off. If a skateboard regularly sells for $\$ 89.99$, which expression would calculate the sale price of the skateboard?
A $89.99-0.35$
C $\quad 89.99(0.35)$
B 89.99-0.65
D 89.99(0.65)
5. Elaine purchased several food items that totaled $\$ 86$ before sales tax. The sales tax for food where she lives is $4.5 \%$. Which expression could Elaine use to find the total for her purchase including sales tax?
A 86(4.5)
B 86(0.955)
C $86(1.045)$
D 86(0.045)
6. Marvin has a rectangular garden that he wants to enclose with a fence. To calculate the perimeter, he used the expression below, where $w$ represents the width and $\ell$ represents the length of the garden.

$$
2 w+2 \ell
$$

Which other expression could Marvin use to calculate the perimeter?
A we
C $\quad 2(w+2 \ell)$
B $2 w e$
D $\quad 2(w+l)$
7. A community center charges $x$ dollars for a summer activity if individuals are signed up before the day of the activity. Individuals who sign up the day of the activity are charged a fee of $x+0.20 x$ dollars. Which expression also represents the fee for signing up the day of the activity, and what does it mean about the fee?

A $1.2 x$; individuals signing up the day of the activity get charged $20 \%$ more
B $\quad 0.8 x$; individuals signing up the day of the activity get charged $20 \%$ more
C $1.2 x$; individuals signing up the day of the activity get charged $20 \%$ less
D $0.8 x$; individuals signing up the day of the activity get charged $20 \%$ less
8. David bought a shirt for $\$ 14.50$ and a pair of pants for $\$ 21.20$. David had a coupon for $33 \%$ off the pair of pants. Which expression can David use to calculate the total price of his purchase?
A $\quad(14.50+21.50)(0.33)$
C $\quad 14.50+(21.50)(0.33)$
B $\quad(14.50+21.50)(0.67)$
D $\quad 14.50+(21.50)(0.67)$

