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(7x) **B** 4(7) + 4(x) **C** 4(7) + (x) **D** 4(7x) + 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** 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?

Α	(39)(0.9)(0.07)	С	(39)(0.1)(0.07)
В	(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?

Α	89.99 – 0.35	С	89.99(0.35)
В	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)	В	86(0.955)	С	86(1.045)	D	86(0.045)
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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 ℓ represents the length of the garden.

 $2w + 2\ell$

Which other expression could Marvin use to calculate the perimeter?

Α	we	С	$2(w+2\ell)$
В	2 <i>wl</i>	D	$2(w + \ell)$

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 + 0.20x dollars. Which expression also represents the fee for signing up the day of the activity, and what does it mean about the fee?

- Α 1.2x; individuals signing up the day of the activity get charged 20% more
- 0.8x; individuals signing up the day of the activity get charged 20% more Β
- С 1.2x; individuals signing up the day of the activity get charged 20% less
- 0.8x; individuals signing up the day of the activity get charged 20% less D

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?

Α	(14.50 + 21.50)(0.33)	С	14.50 + (21.50)(0.33)
В	(14.50 + 21.50)(0.67)	D	14.50 + (21.50)(0.67)