

SOL Mini-Challenge**Expressions and Operations
A.2****Read and solve.**

1. What is the value of $a(b - c)$ if $a = 2$, $b = -3$, and $c = -2$?

- A. 2
- B. -2
- C. -4
- D. -10

2. Each week Jessica earns a 2% bonus on any sales she makes over \$600. She also receives a fixed salary of \$190 per week. If Jessica sold \$1,300 worth of merchandise in a week, which equation could be used to determine her total earnings, t , for the week?

- F. $t = (0.02)[1,90 + (1,300 - 600)]$
- G. $t = 190 + (0.02)(600)$
- H. $t = (190 + 600)(0.02)$
- J. $t = 190 + (0.02)(1,300 - 600)$

3. Which expression correctly describes x divided by the sum of y and 7?

- A. $x \quad y + 7$
- B. $\frac{x}{y + 7}$
- C. $\frac{x}{y} + 7$
- D. $\frac{y + 7}{x}$

4. Evaluate the expression $3x(y - 5)$ when $y = -5$ and $x = 2$.

- F. 25
- G. 45
- H. -45
- J. -60

5. Which one of the following expressions represents 15 less than five times a number?

- A. $5x - 15$
- B. $5x + 15$
- C. $15 - 5x$
- D. $15 + 5x$

6. What is the value of $6a^3 + 5a^2 - 2(b + 3)$ if $a = 4$ and $b = -2$?

- F. 42
- G. 110
- H. 462
- J. 14,222

7. Which one of the following expressions represents the product of six and some number?

- A. $6 + x$
- B. $x / 6$
- C. $6 - x$
- D. $6x$