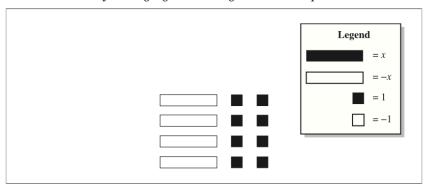
Name:\_\_\_\_\_

Use the following algebra-tile diagram to answer question 9.



- 9. The algebra tile model above could represent the product of
  - **A.** 2 and (2x + 4)
  - **B.** 2 and (2x 4)
  - **C.** 4 and (-x-2)
  - **D.** 4 and (-x + 2)

Use the following information to answer question 3.

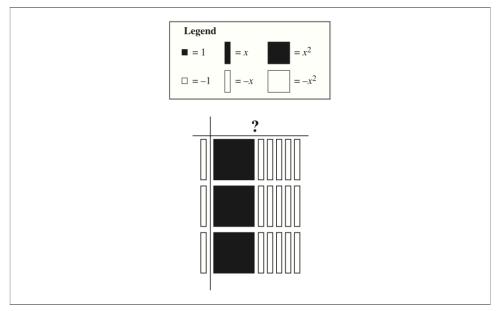
Two students, Robert and Jacob, simplify the expression  $3(x^2 + 4x - 1) - (2x + 5)$ , as shown below.

	Robert	Jacob
Step 1	$=3x^2+12x-3-(2x+5)$	$=3x^2+12x-1-(2x+5)$
Step 2	$=3x^2 + 12x - 3 - 2x + 5$	$=3x^2 + 12x - 1 - 2x - 5$
Step 3	$=3x^2+10x+2$	$=3x^2+10x-6$

- 3. The first error made in the simplification of the expression shown above was made by
  - A. Robert in Step 1
  - B. Jacob in Step 1
  - C. Robert in Step 2
  - D. Jacob in Step 2

Name:\_\_\_\_\_

Use the following information to answer question 39.



- **39.** Which of the following polynomials represents the unknown expression in the model shown above?
  - **A.**  $x^2 5x$
  - **B.**  $-x^2 + 5x$
  - **C.** x-5
  - **D.** -x + 5

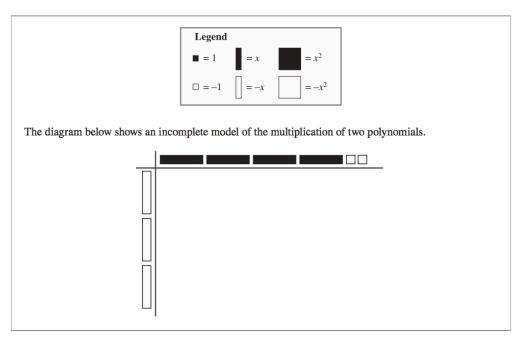
#### **Numerical Response**

9. The quotient of  $(-12x^2 - 9x) \div \blacksquare x$  is -4x - 3. What is the value of  $\blacksquare$ ?

Answer:

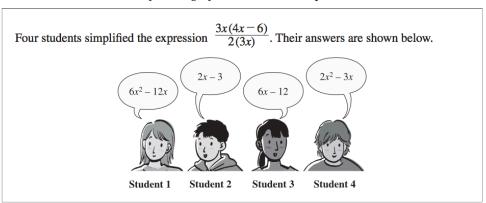
(Record your answer in the numerical-response section on the answer sheet.)

Name:



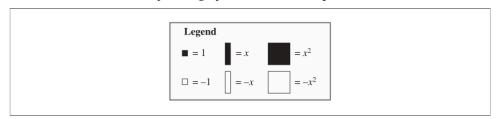
- **24.** What is the coefficient on the x-term in the product?
  - A. -12
  - **B.** 12
  - **C.** -6
  - **D.**

Use the following information to answer question 16.



- 16. Which student correctly simplified the expression?
  - A. Student 1
  - B. Student 2
  - C. Student 3
  - D. Student 4

Use the following information to answer question 19.

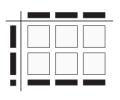


19. Which of the following models could be used to represent the division of  $6x^2 - 3x$  by -3x?

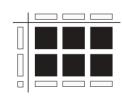
A



B



C.



D

