

Answer Key

Challenge: Skills and Applications

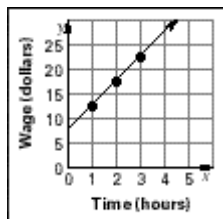
1. a. $(-4, 3)$ b. $(1, -2)$ c. $(-5, -1)$
d. $(0, 4)$ e. (a, b)

2. charge per hour \cdot number of hours + charge per child \cdot number of children;
charge per hour = \$5; number of hours = h
charge per child = \$2.50; number of children = c
 $5h + 2.50c$

3. *Sample answer:* We know the number of children; $y = 5x + 7.50$; number of hours; amount of money earned

4. *Sample answer:*

5. \$27.50



6. 7.50; no; you would not get paid for watching 3 children for 0 hours.

7. *Sample answer:* No; the function from Exercise 3 no longer applies to the situation.