## ADDITIONAL PRACTICE <br> AND PROBLEM SOLVING

Assign these pages to help your students practice and apply important lesson concepts. For additional exercises, see the Student Edition.

## Answers

## Additional Practice

1. $y-2=3(x+4)$
2. $y+1=-(x-6)$
3. 


4.

5. $y=-4 x+1$
6. $y=\frac{1}{2} x-1$
7. $y=4 x-7$
8. $y=\frac{1}{2} x-3$
9. $x$-int: $1, y$-int: -2
10. $x$-int: $6, y$-int: 8
11. $y=0.17 x+3 ; \$ 13.20$


## Problem Solving

## Write the correct answer.

1. The number of students in a school has
been increasing at a constant rate. The
table shows the number of students in
the school for certain numbers of years
since 1995 .

| Years Since <br> 1995 | Number of <br> Students |
| :---: | :---: |
| 0 | 118 |
| 5 | 124 |
| 10 | 130 |

Write an equation in point-slope form
that represents this linear function.
Write the equation in slope-intercept form.

Assuming the rate of change remains
constant, how many students will be in
constant, how many
the school in 2010?
--------------------------------------------
2. Toni is finishing a scarf at a constant rate. The table shows the number of hours Toni has spent knitting this week and the corresponding number of rows in the scarf.

| Toni's Knitting |  |
| :---: | :---: |
| Hours | Rows of Knitting |
| 2 | 38 |
| 4 | 44 |
| 6 | 50 |

Write an equation in slope-intercept form that represents this linear function.
3. A photo lab manager graphed the cost o having photos developed as a function of the number of photos in the order. The graph is a line with a slope of $\frac{1}{10}$ that passes through $(10,6)$. Write an equation in slope-intercept form that describes the cost to have photos developed. How much does it cost to have 25 photos developed?


