

# Chapter 8 Review

## Breakfast Riddle

What is on the breakfast menu for the school cafeteria this morning? To find out what they are serving, work the following problems. Look for your answer in the right column of the box. Use the corresponding letters in the left column to fill in the blanks below.

*(Fill in the blanks in the order of the questions.)*

Start by graphing the following three equations on the same coordinate plane:  $f(x) = x + 3$ ,  $g(x) = -\frac{1}{2}x$ , and  $x = 4$ .

1. Which of the three graphs represent functions?

2. What is the  $x$ -intercept of the graph of  $f(x)$ ?

3. What is the  $y$ -intercept of the graph of  $g(x)$ ?

4. What is the slope of the graph of  $f(x)$ ?

5. For which of the three equations is  $(1, 4)$  a solution?

6. Find  $g(8)$ .

D	-1
N	4
S	-4
LE	$y = 0$
NI	$y = 3$
MA	$x = 0$
NO	$x = 3$
OI	$x = -3$
PR	$(4, -2)$
DE	1
ST	$(2, 1)$
SO	All 3 graphs
B	$f(x)$ and $g(x)$
NO	$f(x)$ and $x = 4$
GG	$f(x)$ only
TO	$g(x)$ only

Answers are located on page 138.