

## Chapter 7 Review Key

1. Undefined for  $x = 3, 6$

2.  $\frac{x+3}{x-9}$

3.  $-\frac{x-8}{5+x}$

4.  $\frac{(x+3)(x+11)}{(x-9)(x+8)}$

5.  $\frac{x-1}{(x-5)(x-7)}$

6.  $\frac{x+4}{x-7}$

7.  $\frac{4}{x+10}$

8.  $\frac{x-5}{x-2}$

9.  $\frac{3x+8}{(x+3)(x+5)(x+4)}$

10.  $\frac{x+8}{(x+5)(x+2)}$

11.  $\frac{x-3}{x+8}$

12.  $\{-4, 7\}$

13.  $\{8\}$

14. The number is 6.

15. It would take  $22\frac{2}{9}$  minutes working together.

16. It would take Earl 6 hours and it would take John 2 hours.