Name_____ Date _____

1.1 Practice A

In Exercises 1–6, solve the equation. Justify each step. Check your solution.

1. $x + 2 = 5$

2. $g - 4 = 3$

3. $m - 1 = 8$

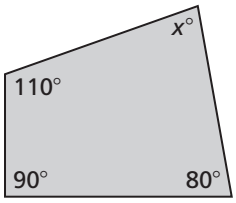
4. $d + 4 = -2$

5. $p + 7 = 5$

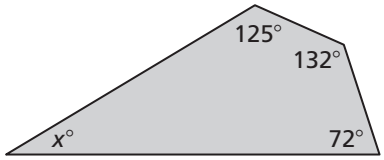
6. $k - 6 = -4$

The sum of the angle measures of a quadrilateral is 360°. In Exercises 7 and 8, write and solve an equation to find the value of *x*. Use a protractor to check the reasonableness of your answer.

7.



8.



In Exercises 9–14, solve the equation. Justify each step. Check your solutions.

9. $3t = 24$

10. $7p = 28$

11. $s \div 4 = 3$

12. $j \div 5 = 2$

13. $-6q = 54$

14. $c \div (-9) = 2$

In Exercises 15–20, solve the equation. Check your solution.

15. $h + \frac{1}{3} = \frac{5}{3}$

16. $w - \frac{7}{9} = \frac{2}{9}$

17. $\frac{3}{5}f = 9$

18. $u + 2.7 = 1.5$

19. $32\pi t = 64\pi$

20. $m \div (-7) = 2.1$

In Exercises 21–23, write and solve an equation to answer the question.

21. The width of a laptop is 11.25 inches. The width is 0.75 times the length. What is the length of the laptop?

22. The temperature at 10 A.M. is 12 degrees Fahrenheit. The temperature at 6:00 A.M. was -7 degrees Fahrenheit. How many degrees did the temperature rise?

23. The population of a city is 645 people less than it was 5 years ago. The current population is 13,500. What was the population 5 years ago?

24. Identify the property of equality that makes Equation 1 and Equation 2 equivalent.

Equation 1	$4.2x - 1.5 = 1.7x + 8.3$
Equation 2	$42x - 15 = 17x + 83$