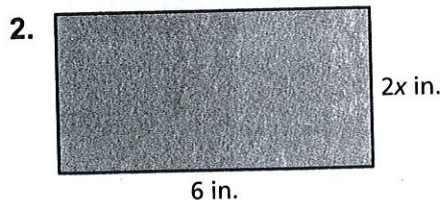
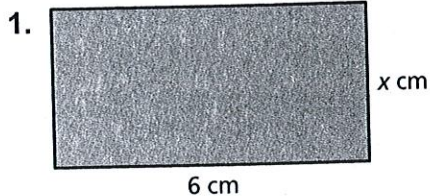


# 1.3 Practice A

The value of the perimeter of the figure is equal to the value of the area.  
Find the value of  $x$ .



Solve the equation. Check your solution.

3.  $y - 12 = 4y$

4.  $6n - 12 = n + 3$

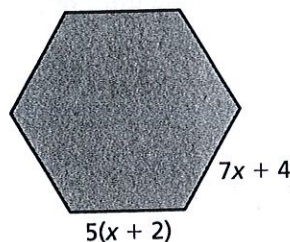
5.  $\frac{1}{5}q = 9 - \frac{2}{5}q$

6.  $4.3d + 7.5 = 5.8d$

7.  $6(h + 4) = -2h$

8.  $3(b - 4) = 5b - 2$

9. Your long distance telephone provider offers two plans. Plan A has a monthly fee of \$15 and \$0.25 per minute. Plan B has a monthly fee of \$20 and \$0.05 per minute. Write and solve an equation to find the number of minutes that you must talk to have the same cost for each of the plans.
10. One-third of a number  $x$  is equal to 22 less than the number. Write and solve an equation to find the number.
11. Find the perimeter of the regular polygon.



12. You purchase a desk for 60% of the original price  $p$ . This price is \$32 less than the original price. Write and solve an equation to find the original price of the desk.

Solve the equation.

13.  $8x + 3 = 8x$

14.  $-25(10 - x) = 25x + 250$

15.  $x + 1 = x + 1$

16.  $6(2x + 4) = 4(3x + 6)$

17.  $x + 2 = 5x$

18.  $5x + 2 - x = -4x$

# 1.2 Puzzle Time

## Where Was The Declaration Of Independence Signed?

Circle the letter of each correct answer in the boxes below. The circled letters will spell out the answer to the riddle.

Solve the equation.

1.  $8 - 3x = 17$

2.  $5a - 6 - 2a = 12$

3.  $4.3t - 2.1t - 2.3 = 7.6$

4.  $8.1 + 3.8h - 5.6h = -7.2$

5.  $\frac{2}{5}c + 4 - \frac{1}{5}c = -9$

6.  $2(4s - 16) - 5s = -5$

7.  $3g - 6(g - 8) = 42$

8.  $1.3(8 - b) + 3.7b = -5.2$

9. For the past three months, Grace used her cell phone for 43 minutes, 62 minutes, and 57 minutes. How many minutes would she have to use her cell phone this month for the average usage over the four months to be 55 minutes?

10. A triangle has one angle measuring  $3x$  degrees. A second angle measures  $2x + 20$  degrees and the third angle measures  $4x - 20$  degrees. What is the value of  $x$ ?

11. You and a friend buy two fruit smoothies and leave a tip. You split the total and your half comes to \$3.60. What percent tip (in decimal form) did you and your friend leave if the fruit smoothies cost \$3 each?

A	M	T	E	S	R	T	I	H	P	E	D	G	B	Y
2	60	6	8.2	0.10	5	9	0.18	8.5	55	-3	10.5	-2	0.15	-62
F	B	I	R	O	H	T	C	U	T	N	O	L	M	S
9.5	0.20	3	10	-65	15	58	90	8	20	-55	4.5	68	-6.5	12.5