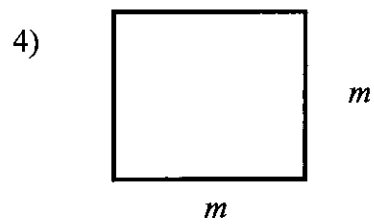
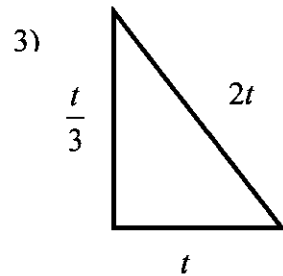
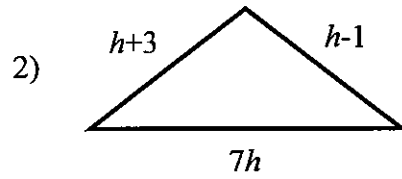
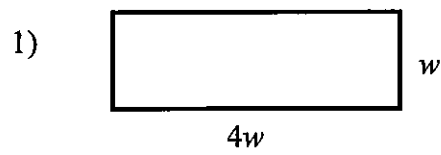


Vocabulary:

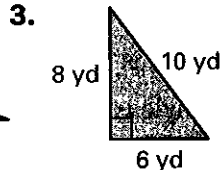
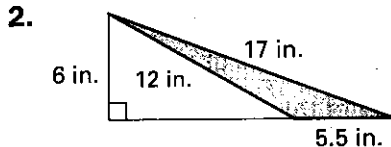
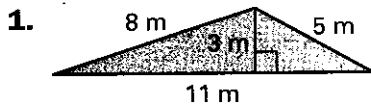
Write an expression to represent the perimeter and area of each shape:



Practice B

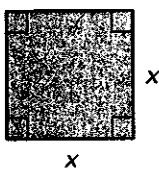
For use with pages 142-147

Find the area and the perimeter of the triangle.

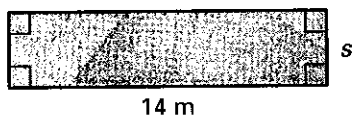


Find the value of the variable.

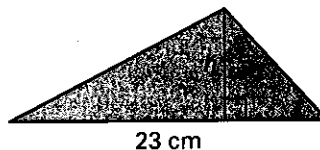
4. $A = 144 \text{ yd}^2$



5. $A = 42 \text{ m}^2$

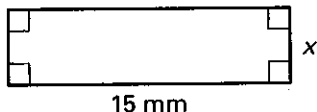


6. $A = 92 \text{ cm}^2$

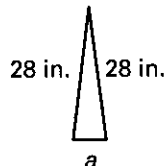


Find the value of the variable.

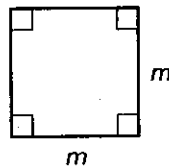
7. $P = 38 \text{ mm}$



8. $P = 63 \text{ in.}$



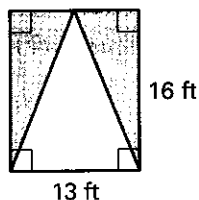
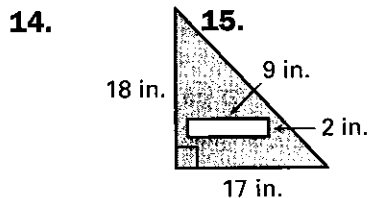
9. $P = 56 \text{ yd}$



Find the length of each side.

10. A rectangle has a perimeter of 64 millimeters and a length of 19 millimeters. What is the width of the rectangle?
11. A triangle has an area of 408 square inches and a height of 17 inches. What is the length of its base?
12. A triangle has an area of 37 square feet and a base with a length $8.4x$ feet. What is the height of the triangle in terms of x ?
13. A rectangle has an area of 39 square centimeters and a width of $8.1w$ centimeters. What is the length of the rectangle in terms of w ?

Find the area of the shaded region in the figure.



Practice B

For use with pages 148–153

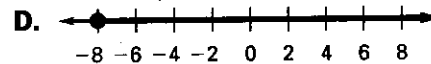
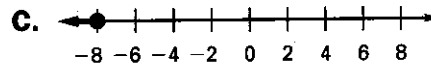
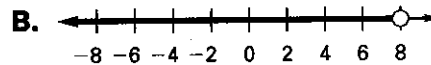
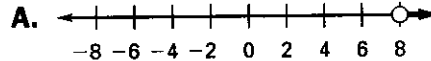
Match the inequality with its graph.

1. $x < 8$

2. $x \geq -8$

3. $x \leq -8$

4. $x > 8$



Write a verbal phrase to describe the inequality.

5. $f \geq -4$

6. $d < 9$

7. $w > -19$

8. $g \leq 0$

Solve the inequality. Then graph its solution.

9. $x + 8 > 9$

10. $10 \geq m - 3$

11. $p + 4 < 2$

12. $13 > 5 + f$

13. $7 \leq a - 9$

14. $6 + y > 4$

15. $q + 8 \geq -5$

16. $-29 + v \leq -51$

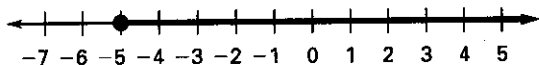
17. $-32 > j - 29$

18. $-2.8 < k - 7.0$

19. $m + \frac{1}{3} > 4$

20. $t - 4.6 < 5.9$

Tell whether the number is a solution of the inequality graphed below.



21. -6.5

22. 0

23. $-3\frac{1}{2}$

24. 4

In Exercise 25 and 26, use the following information. You are trying to run 5 miles in less than 30 minutes. You run the first mile in 5 minutes, the second mile in 7 minutes, the third mile in 8 minutes, and the fourth mile in 6 minutes.

25. Write and solve an inequality that represents the time in which you must run the last mile in order to run 5 miles in less than 30 minutes.

26. Graph the range of the times for the last mile.

Write a verbal sentence that describes the compound inequality.

27. $-3 < x < 4$

28. $8 \leq h \leq 13$

29. $0 < w \leq 7$

Practice B

For use with pages 154-160

Solve the inequality. Then graph its solution.

1. $\frac{1}{6}m > 2$

2. $-\frac{1}{8}h \geq 9$

3. $-\frac{1}{5}y \leq 29$

4. $\frac{1}{3}p < -17$

5. $7g < 42$

6. $36 \geq -9n$

7. $15k < -165$

8. $-8q \leq 64$

9. $9 > -\frac{1}{12}u$

10. $-13c \geq 104$

11. $-\frac{1}{7}b < 61$

12. $-68 \leq -17j$

13. A tuition bill for school states that Brenda owes \$438. She wants to pay off her bill in 6 months. Write and solve an inequality that gives the least amount she can repay each month.

14. Mark earns \$363 a week. Pedro works for \$8.25 an hour. For how many hours must Pedro work to make as much as or more than Mark?

Solve the inequality. Then graph its solution.

15. $34 > 4 - 5x$

16. $7y - 12 < 8y + 5$

17. $4p - 21 \geq 7$

18. $3(7 - m) \leq 4(2 - m)$

19. $12d < -5(51 + d)$

20. $13z + 19 \leq 8z - 6$

21. You went to the post office with \$20. You mailed a package for \$3.67. At most, how many \$.37 stamps could you have purchased?

Solve the inequality.

22. $4(x - 12) \geq x + 6$

23. $3(11 - 6x) \geq -3$

24. $9(6 + x) \leq 2(x - 1)$

25. Find the three greatest consecutive integers whose sum is no more than 26.

26. Tickets for a concert were sold for \$26 in advance and \$31 at the door. Fifty-four tickets were sold in advance. How many tickets need to be sold at the door for an income of at least \$5000?