10-1

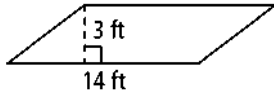## Practice

Form G

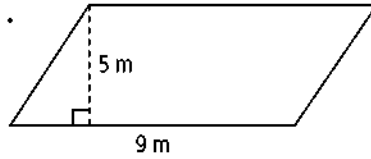Areas of Parallelograms and Triangles

Find the area of each parallelogram.
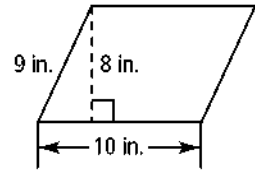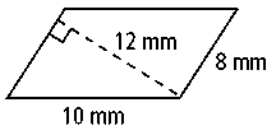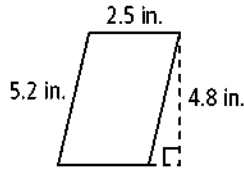
1.
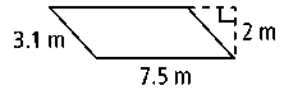
3 ft
14 ft

2. ·

5 m
9 m

3.

9 in. | 8 in.
← 10 in. →

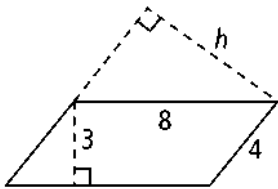**4.**

12 mm
8 mm
10 mm

5.

2.5 in.
5.2 in.
4.8 in.

6.

3.1 m
2 m
7.5 m

Find the value of *h* for each parallelogram.

7.

h
8
3
4

8.

7.8
h
6.5
6

9.

4
9.5
h
3.8

Find the area of each triangle.
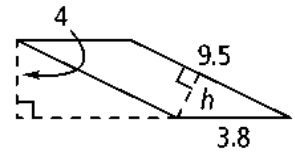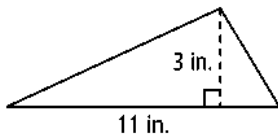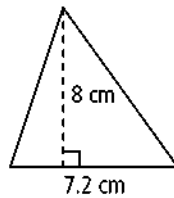
10.

3 in.
11 in.

11.

8 cm
7.2 cm

12.

7.8 ft | 6 ft | 10 ft
5 ft
8 ft

13.

9 yd
6 yd
10.8 yd

14.

5.5 in.
2 in.   7 in.

15.
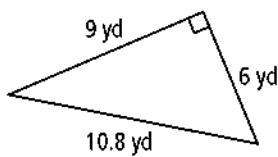
10.4 m
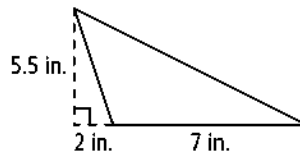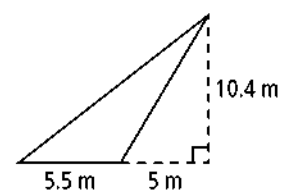5.5 m   5 m

16. Algebra In a parallelogram, a base, b, and its corresponding height, h, are in the ratio of 5 : 3. The area is 135 mm². Find b and h.
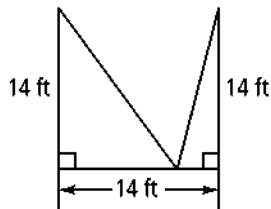
Coordinate Geometry Find the area of a polygon with the given vertices.

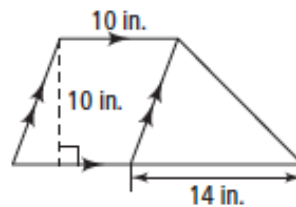**21.** $A(2, 2), B(5, 2), C(3, -1), D(0, -1)$

23. $A(5, -3), B(-1, -3), C(-1, 2), D(5, 6)$

Find the area of each figure.

25.

14 ft   14 ft

14 ft
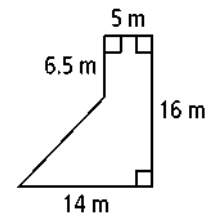
26.

10 in.

10 in.

14 in.

27.

5 m

6.5 m

16 m

14 m

29. A parallelogram has sides 24 m and 5 m. The height corresponding to a 24-m base is 4 m. What it the height corresponding to a 5-m base?