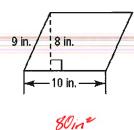
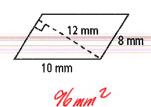
10.1 & 10.2 — Areas of Triangles, Parallelograms, Trapezoids, Rhombi, & Kites

Find the area of each parallelogram. Show necessary work.

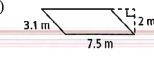
1)



2)



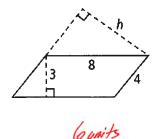
3)



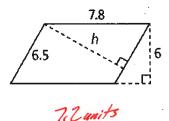
15m2

Find the value of h for each parallelogram. Show necessary work.

4)



5)

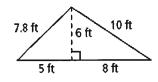


.4.

1.6 units

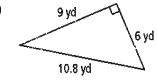
Find the area of each triangle. Show necessary work.

7)



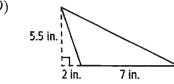
3942

8)



ZTyd

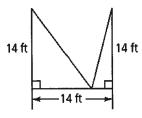
9)



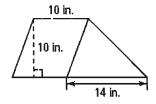
19.75in2

Find the area of each figure.

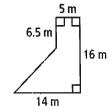
10)



11)



12)



122,75in2

In a parallelogram, a base, b, and its corresponding height, h, are in the ratio of 5:3. The area is 135 mm^2 . Find b and h.

b=15 mm h=9mm

14) A triangle has an area of 18 ft². List all the possible positive integers that could represent its base and height.

1,36 6,6

15) A parallelogram has a height of 6 units and a corresponding base of 7 units. What is the area of each triangle formed when one diagonal of the parallelogram is drawn? What is the area of each small triangle formed when two diagonals are drawn?

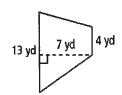
Units 10.5 units.

Find the area of each trapezoid. Show necessary work.

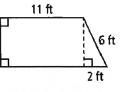
16) 16 ft 10 ft

125 Az

17)

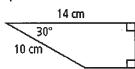


18) Leave your answers in simplest radical form.



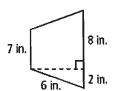
48NZ ff2

19) Leave your answers in simplest radical form.



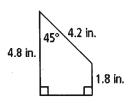
 $70 - \frac{25}{2}\sqrt{3} \text{ cm}^2$

Round to the nearest tenth. 20)



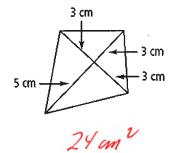
48.1 in 2

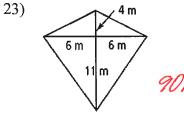
21) Round to the nearest tenth.

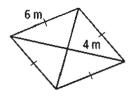


Find the area of each kite or rhombus.

22)

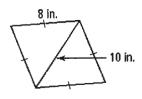






16N5 m2

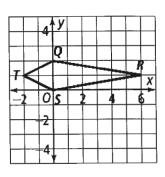
25)



10 J39 in 2

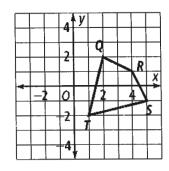
Find the area of each quadrilateral QRST.

26)



8 units.

27)



quits.

One diagonal of a rhombus is 5 less than twice the other diagonal. The area is 75 cm². Find the length of each diagonal.

10cm 15cm 29) Find the area of the rhombus. Leave your answers in simplest radical form.



32m2