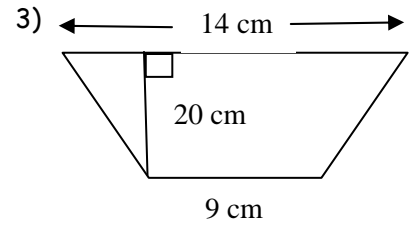
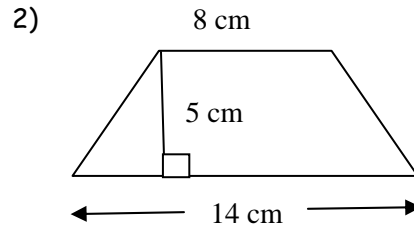
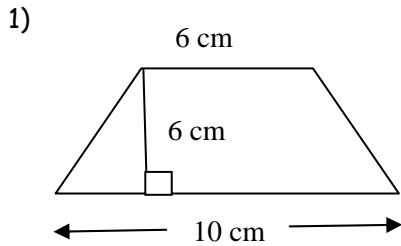


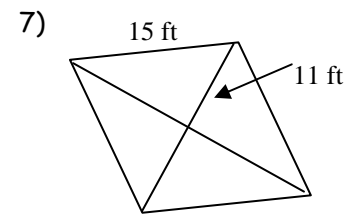
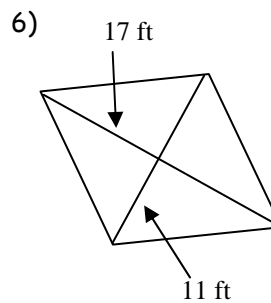
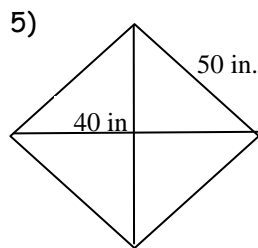
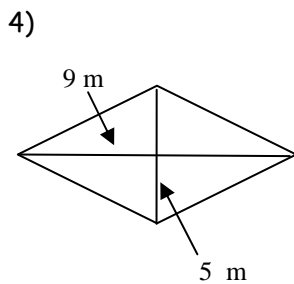
$A_{\text{trapezoid}} = \frac{1}{2}(h)(b_1 + b_2)$  where  $h$  is height &  $b_1$  and  $b_2$  are the bases  
 OR  
 $A_{\text{trapezoid}} = (\text{median})(\text{height})$

Area of a Quad. with Perp. Diagonals =  $\frac{1}{2}d_1d_2$

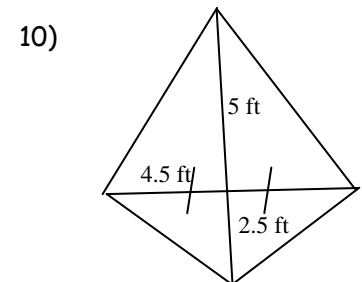
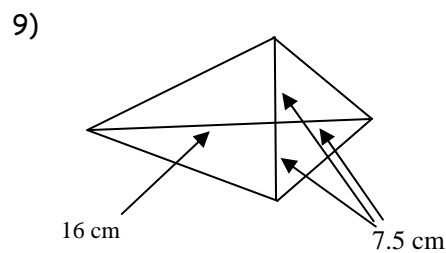
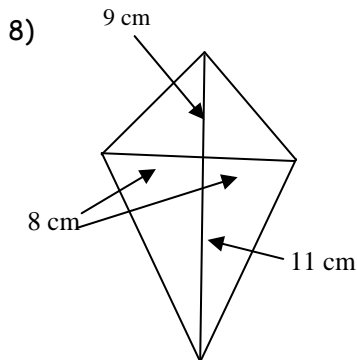
Find the area of each trapezoid.



Find the area of each rhombus. Round to the nearest tenth, if necessary.

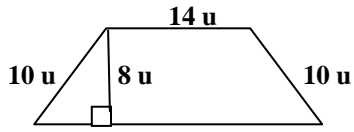


Find the area of each kite. Round your answer to the nearest tenth.

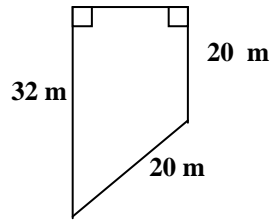


Find the area of each of the following.

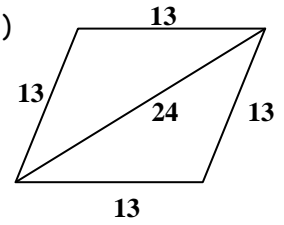
11)



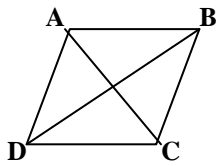
12)



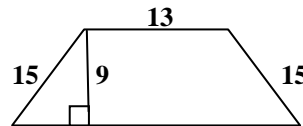
13)



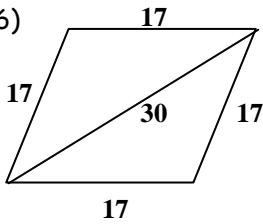
14) Rhombus ABCD with  $AC = 10$  and  $BD = 17$



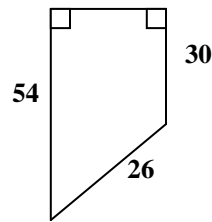
15)



16)

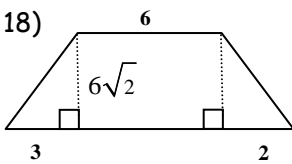


17)

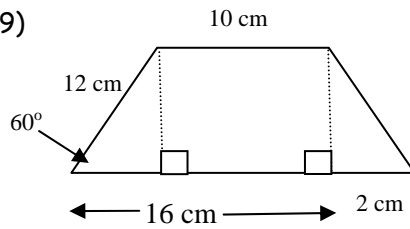


Find the area of the following.

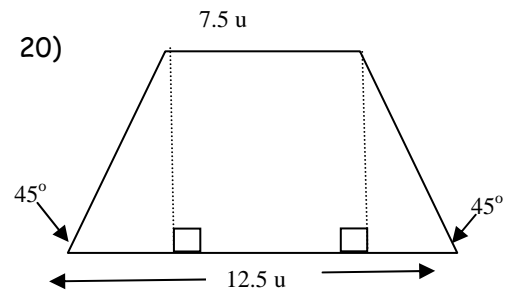
18)



19)

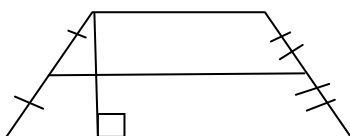


20)

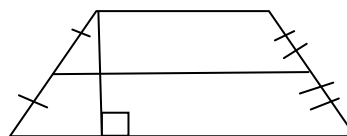


Find the area of the trapezoids.

21) The median is equal to 25 cm and the height is 8 cm.



22) The median is equal to 24 m and the height is 9 m.



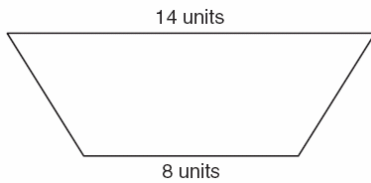
- 23) The area of a rhombus is 90 square units. If one diagonal is 10 units, find the length of the other diagonal.
- 24) The area of a trapezoid is 75 square inches, and its two bases are 8 and 17 inches long. Find the height of the trapezoid.
- 25) A rhombus has a perimeter of 100 meters and a diagonal 30 meters long. Find the area of the rhombus.
- 26) The area of a trapezoid is 126 square feet with a height of 9 feet and the length of one of the bases is 13 ft. Find the length of the second base.
- 27) The area of an isosceles trapezoid is 77 square inches, the height measures 4 inches and the legs are 5 inches long. Find the lengths of the bases.
- 28) A rhombus has an area of 20 and one diagonal of length 12. Find the length of the other diagonal.

29) A trapezoid has a height of 10, one base of length 5, and an area of 60. Find the length of the other base.

30) The length of one of the diagonals of a kite is 4 cm longer than twice the length of the other diagonal. The area of the kite is  $15 \text{ cm}^2$ . Find the length of each diagonal.

31) The length of one of the diagonals of a rhombus is 5 cm less than the length of the other diagonal. The area of the rhombus is  $33 \text{ cm}^2$ . Find the length of each diagonal.

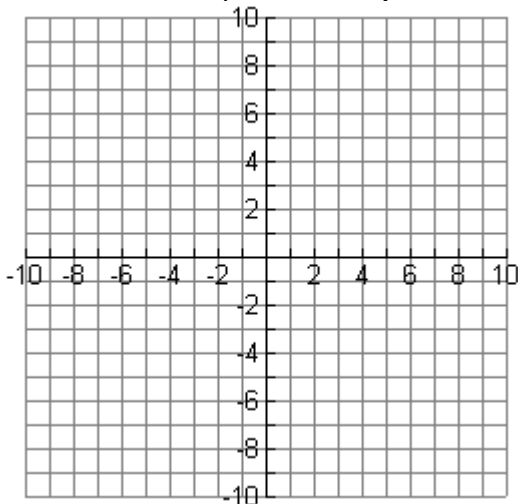
32) The lengths of the bases of an isosceles trapezoid are shown below.



If the perimeter of this trapezoid is 32 units, what is its area?

- A 44 square units
- B 110 square units
- C 88 square units
- D 55 square units

33) The vertices of an isosceles trapezoid are  $A(4, 0)$ ,  $G(6, 3)$ ,  $K(-2, 3)$  and point  $Q(0, 0)$ . Find the area of trapezoid  $AGKQ$ .



34) Kite  $CHSR$  has vertices at  $C(0, 3)$ ,  $H(-4, 0)$ ,  $S(0, -7)$  and  $R(4, 0)$ . Find the area of kite  $CHSR$ .

