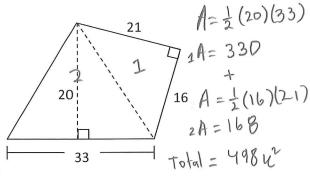
Geometry

8.1 Areas of Special Quadrilaterals HW Day 2

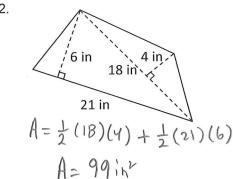
Name:

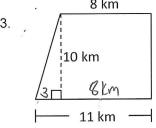
Calculate the area of each shape.

1.



2.

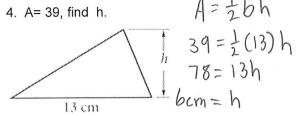




8 km
$$A = \frac{1}{2}(3)(10) + (10)(8)$$

$$A = 15 + 80$$

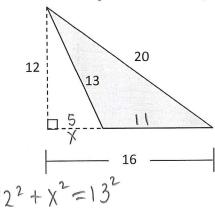
$$A = 95 \text{ Km}^{2}$$



Solve each problem

5. The area of a triangle is 48 ft². The base is 16 ft. What is the height of the triangle?

6. What is wrong with the following shaded area calculation? What is the correct calculation?

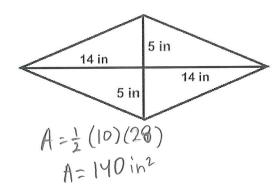


$$A = \frac{1}{2}(16)(12) = 96$$
Not the

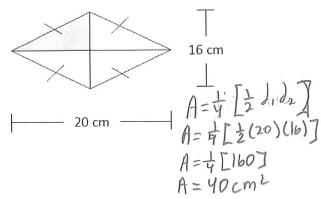
correct base.

$$A = \frac{1}{2}(11)(12)$$
 $A = 66 u^2$

Find the area of the rhombus. 7.



Find the area of the shaded region. 8.



A rhombus has an area of 108 yd ² and the length of one of its diagonals is 18 yds. Find 9. the length of the other diagonal.

al.
$$A = \frac{1}{2} \int_{1}^{2} d_{2}$$

 $108 = \frac{1}{2} (18) d_{2}$
 $108 = 9 d_{2}$
 $12yd = d_{2}$

Find the area of the rhombus below using two different methods. 10.

$$AD = 4[\frac{1}{2}(3)(4)]$$

$$AD = 4[6]$$

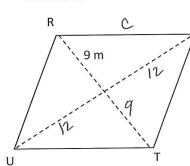
$$AD = 4[6]$$

$$AD = 24[n^{2}$$

$$AD = \frac{1}{2}(6)(8)$$

$$AD = 24 in^{2}$$

Rhombus RSTU has an area of 216 m². Find the perimeter of the rhombus. 11.



$$A = \frac{1}{2} \int_{1}^{1} d_{2}$$

$$216 = \frac{1}{2} (18) \int_{2}^{1} d_{2}$$

$$216 = 9 \int_{2}^{1} d_{2}$$

$$24 = \partial_{2}$$

of 216 m². Find the perimeter of the rhombus.

$$A = \frac{1}{2} \int_{1}^{1} dz$$

$$216 = \frac{1}{2} (18) dz$$

$$216 = 9 dz$$

$$24 = dz$$

$$24 = dz$$

$$P = 4(15)$$

$$P = 60 \text{ m}$$