Geometry Honors
Unit 11 Solids
11.1b Find area of Trapezoids, Kites, and Rhombuses

Mathematician: _____
Period:_____

LEVEL: EMERGING

VOCABULARY

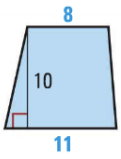
1. The perpendicular distance between the bases of a trapezoid is called _____ of the trapezoid.

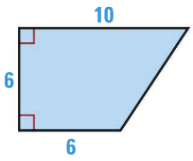
WRITING

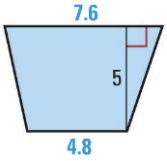
2. Sketch a kite and its diagonals. *Describe* what you know about segments and angles formed by intersecting diagonals.

FINDING AREA

Directions: Find the area of the trapezoid

3. 

4. 

5. 

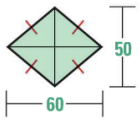
DRAWING DIAGRAMS

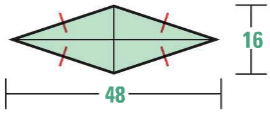
6. The lengths of the bases of a trapezoid are 5.4 cm and 10.2 cm. The height is 8 cm. Draw and label a trapezoid that matches this description. Then find its area.

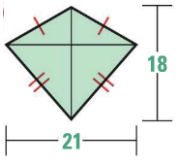
Draw Here!

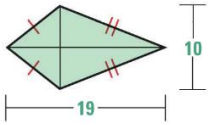
FINDING AREA

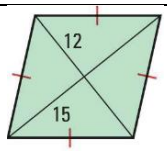
Directions: Find the area of the kite or rhombus

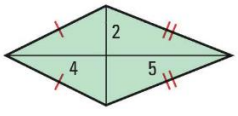
7. 

8. 

9. 

10. 

11. 

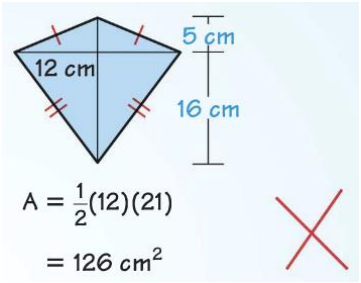
12. 

LEVEL: PROFICIENT

ERROR ANALYSIS

Directions: *Describe* and correct the error in finding the area

13.



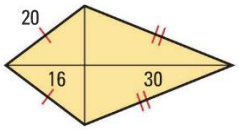
LEVEL: MASTERY

14. One diagonal of a rhombus is three times as long as the other diagonal. The area of the rhombus is 24 square feet. What are the lengths of the diagonals?

FINDING AREA

Directions: Find the area of the shaded region

15.



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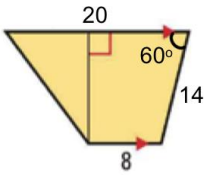

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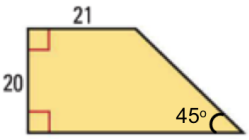

18. Find the area of the rhombus defined by the following points:
$C(-7,3), D(1,4), E(5,-3), F(-3,-4)$