

Name: _____

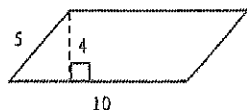
Geometry

Worksheet 11-2 Areas of Parallelograms, Trapezoids, Rhombuses and Kites

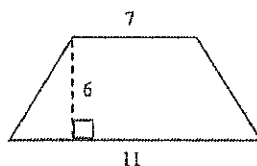
Formulas: $A = bh$ (Parallelogram); $A = \frac{1}{2}(b_1 + b_2)h$ (Trapezoid); $A = \frac{1}{2}d_1d_2$ (Rhombus and Kite)

Find the area of each figure:

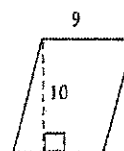
1.



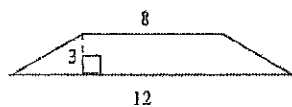
2.



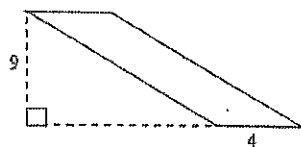
3.



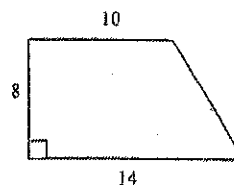
4.



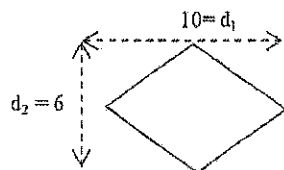
5.



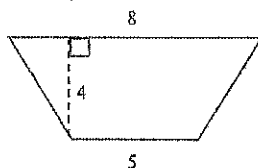
6.



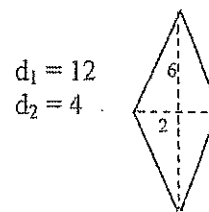
7. Rhombus



8.

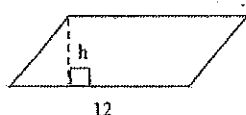


9. Rhombus

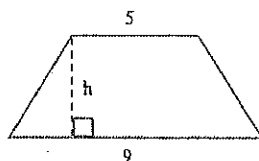


Find the missing part of each figure given the area

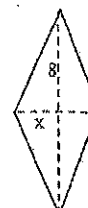
10. Area = 48



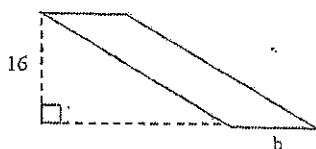
11. Area = 42



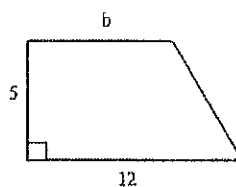
12. Area = 48 (Rhombus)



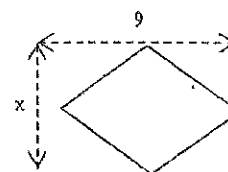
13. Area = 64



14. Area = 50

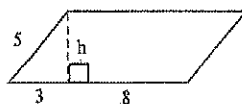


15. Area = 27 (Rhombus)

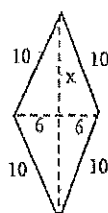


Find the missing part using the Pythagorean Theorem and find the area.

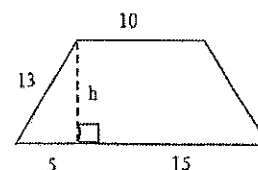
16.



17.



18.



Name: _____

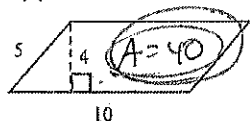
Geometry

Worksheet 11-2 Areas of Parallelograms, Trapezoids, Rhombuses and Kites

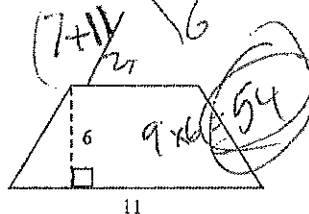
Formulas: $A = bh$ (Parallelogram); $A = \frac{1}{2}(b_1 + b_2)h$ (Trapezoid); $A = \frac{1}{2}d_1d_2$ (Rhombus and Kite)

Find the area of each figure:

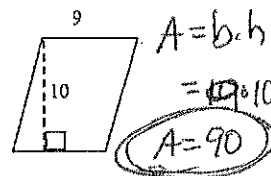
1. $A = 4 \times 10 = 40$



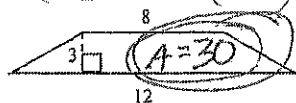
2.



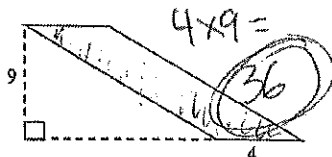
3.



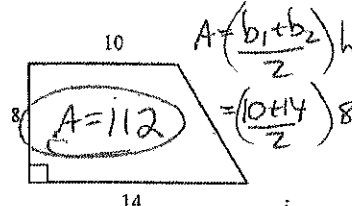
4. $A = \left(\frac{b_1 + b_2}{2}\right)h = \left(\frac{8 + 12}{2}\right)3$



5.

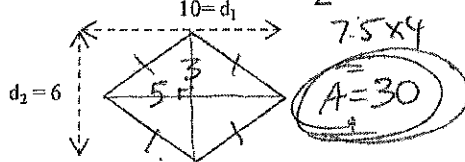


6.

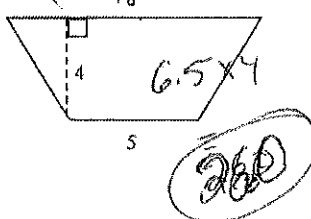


7. Rhombus

$A = \frac{3 \times 5}{2} = 7.5 \times 8$

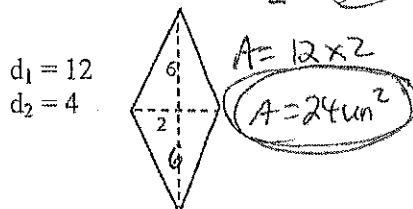


$\left(\frac{8 + 5}{2}\right) \cdot 4$



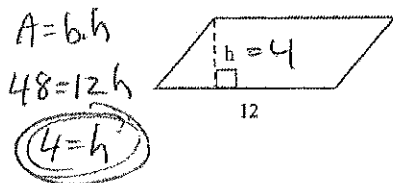
9. Rhombus

$A = \frac{12 \times 2}{2} = 12$

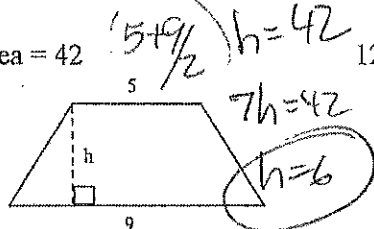


Find the missing part of each figure given the area

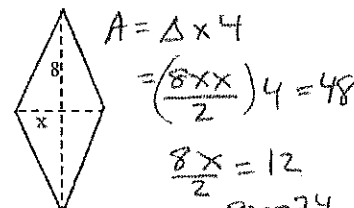
10. Area = 48



11. Area = 42

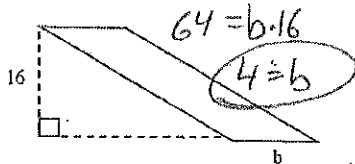


12. Area = 48 (Rhombus)



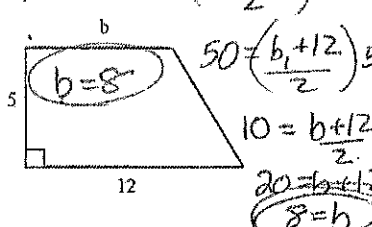
13. Area = 64

$A = b \cdot h$

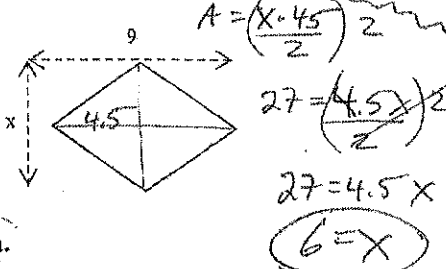


14. Area = 50

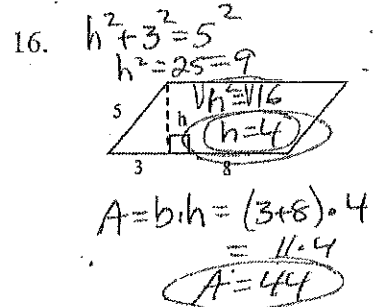
$A = \left(\frac{b_1 + b_2}{2}\right)h$



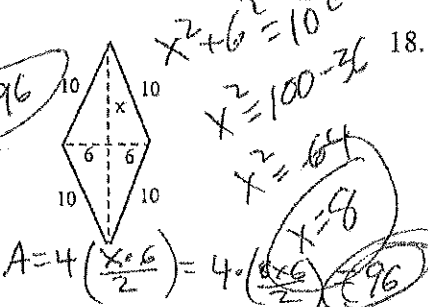
15. Area = 27 (Rhombus)



Find the missing part using the Pythagorean Theorem and find the area.



17.



18.

