

9.2 Area of Trapezoids, Kites and Rhombi

NAME: _____

CORRECTIVE ASSIGNMENT

DATE: _____

$$A = bh$$

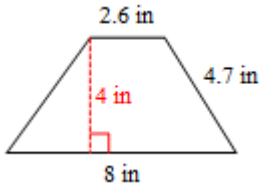
$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(b_1 + b_2)h$$

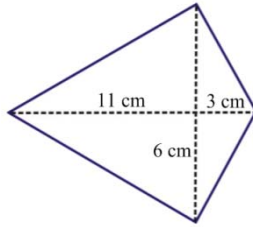
$$A = \frac{1}{2}d_1d_2$$

Find the area.

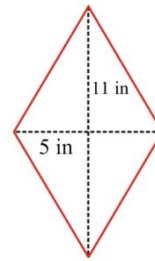
1. TRAPEZOID



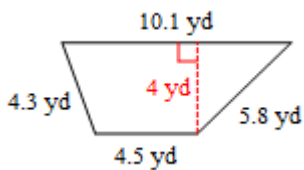
2. KITE



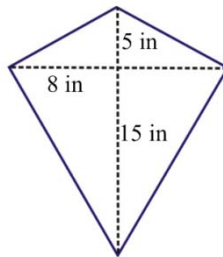
3. RHOMBUS



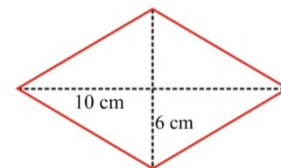
4. TRAPEZOID



5. KITE

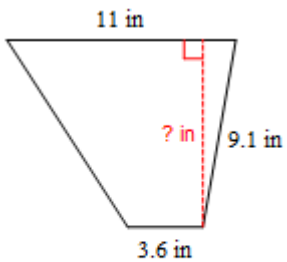


6. RHOMBUS



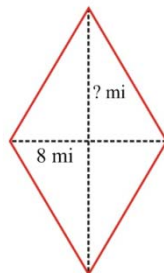
Find the missing measurement. Round to the nearest hundredth.

7. TRAPEZOID



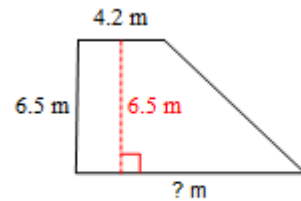
$$\text{Area} = 65.7 \text{ in}^2$$

8. RHOMBUS



$$\text{Area} = 192 \text{ mi}^2$$

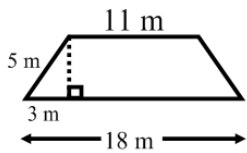
9. TRAPEZOID



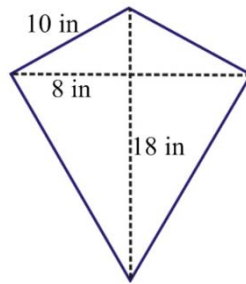
$$\text{Area} = 50.1 \text{ m}^2$$

PYTHAGOREAN THEOREM Find the area.

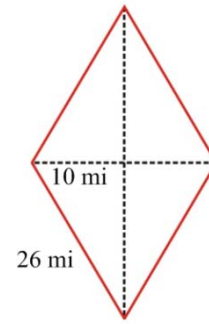
10. TRAPEZOID



11. KITE

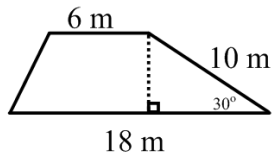


12. RHOMBUS

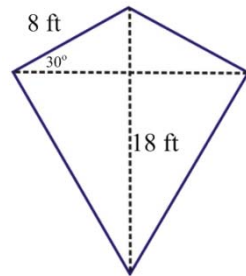


SPECIAL RIGHT TRIANGLES 30-60-90 and 45-45-90 Find the area.

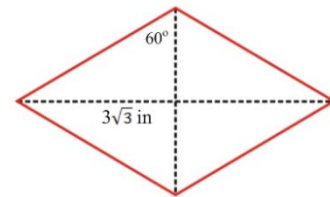
13. TRAPEZOID



14. KITE

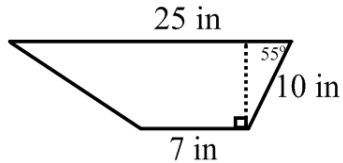


15. RHOMBUS

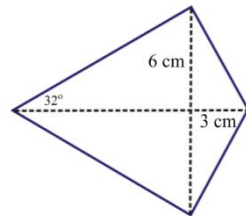


TRIGONOMETRY Find the area. Round to the nearest hundredth.

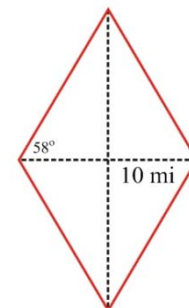
16. TRAPEZOID



17. KITE



18. RHOMBUS



9.2 Corrective Assignment Solutions

1. 21.2 in^2	2. 84 cm^2	3. 110 in^2
4. 29.2 yd^2	5. 160 in^2	6. 120 cm^2
7. 9 in	8. 12 mi	9. 11.2 m
10. 58 cm^2	11. 192 in^2	12. 480 mi^2
13. 60 m^2	14. $88\sqrt{3}$ or 152.42 ft^2	15. $18\sqrt{3}$ or 31.18 in^2
16. 131.04 in^2	17. 75.6 cm^2	18. 320 mi^2