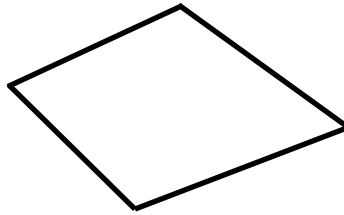**Mark as many congruent parts and parallel sides as possible given the classification.**
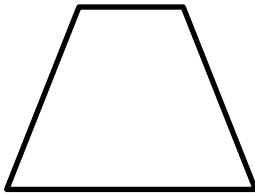
1.

Rectangle

2.

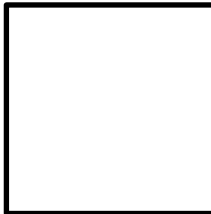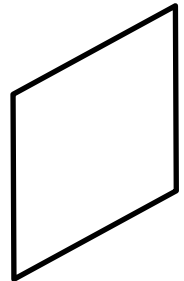Kite

3.

Parallelogram

4.

Trapezoid

5.

Square

6.

Rhombus

If a quadrilateral is classified as follows, what other classification could also be given.

7. Rectangle   **8.** Square   **9.** Rhombus

10. Kite   **11.** Parallelogram   **12.** Trapezoid

True or false?

13. Every parallelogram is a quadrilateral.   **16.** Every rhombus is a square.

14. Every rhombus is a parallelogram.   **17.** Every square is a rhombus.
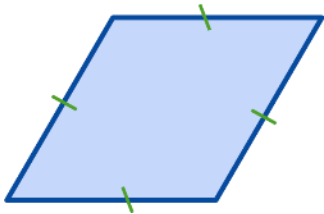
15. Every square is a rectangle.   **18.** Every rectangle is a square.
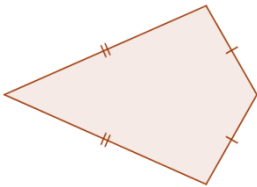
19. When is a rhombus also classified as a square? **20.** When is a parallelogram also a rectangle?

Using the diagram in the notes and the markings or measurements on the shape, list all possible classifications for each polygon. Circle the most specific one.
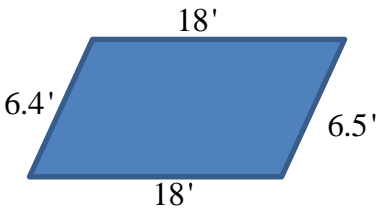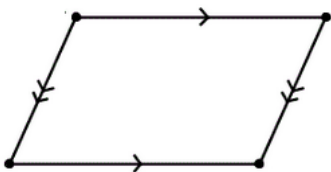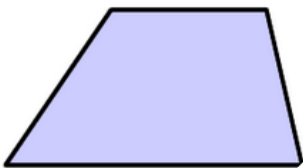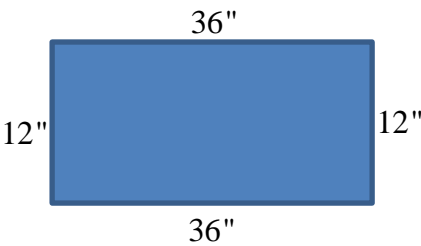
21.

22.

23.

18'

6.4'

6.5'

18'

24.

25.

26.

36"

12"   12"

36"

Given the classification, solve for the missing variables. Then find the perimeter.
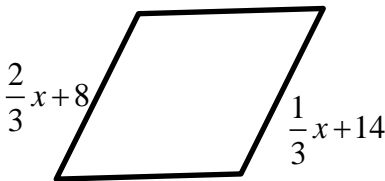
27. Kite

$5y+16$ $5x-37$

$\frac{3}{4}(8y+12)$ $2x+8$

28. Rectangle

$15x-35$

$3y-11$ $9y-53$

$5x+15$

29. Rhombus

$\frac{2}{3}x+8$

$\frac{1}{3}x+14$
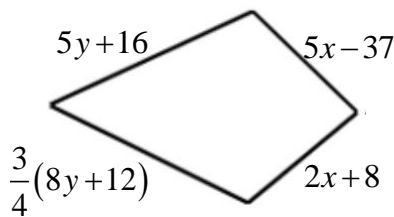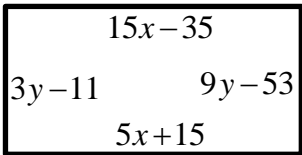
$x =$

$y =$

Perimeter =

$x =$

$y =$

Perimeter =

$x =$

Perimeter =