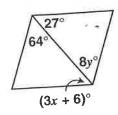
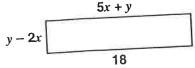
Quadrilateral Quandary

Each quadrilateral below is a parallelogram. Find the values of x, y, and z.

1.



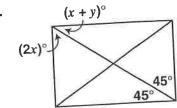
2.



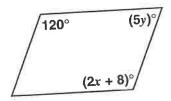
3.

$$(5x + y)^{\circ}$$

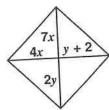
$$(4x - y)^{\circ}$$
125°



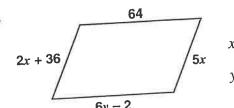
5.

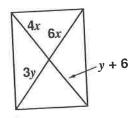


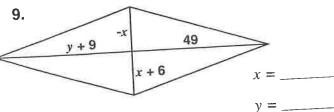
6.

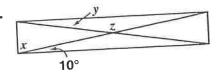


7.









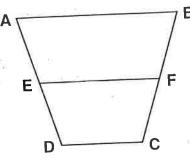
x = _____

y = _____

Name____

Figure It Up

Refer to isosceles trapezoid ABCD and its median EF below to solve the problems.



1. If CD = 3 and AB = 7, find EF.

EF = _____

2. If AB = 12 and EF = 10, find CD.

CD = _____

3. If CD = 4 and AB = 8, find EF.

EF = _____

4. If AB = 4x + 6, CD = 8x + 2, and EF = 10, find x.

5. Find EF if AB = 11 and CD = 3.

EF = _____

6. Find m \angle CFE if m \angle BAE = 72°.

m∠CFE = _____

7. If AB = 14 and EF = 10, find CD.

CD = ____

8. If $m\angle FBA = (15x + 5)^{\circ}$ and $m\angle BAE = (85 - 5x)^{\circ}$, find x.

9. If EF = 10x + 3, AB = 10, and CD = 8x + 20, find x.

10. If AB = 22 and CD = 14, find EF.

EF = .____

11. On another sheet of paper, draw a Venn diagram that shows how quadrilaterals are relate Include an explanation of your Venn diagram.