9-1 Crossover Problem: Forming & Solving Equations

ACCESS MATHS

Step 1
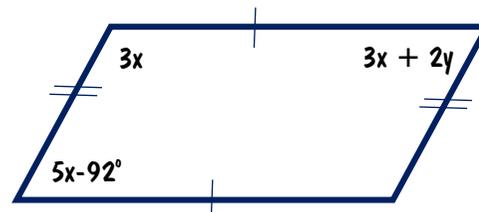
112°
x

94°   98°

87°   x

98°
34°   x

Work out the size of the missing angle in each question
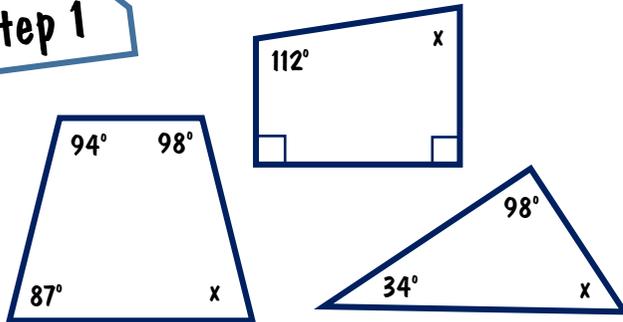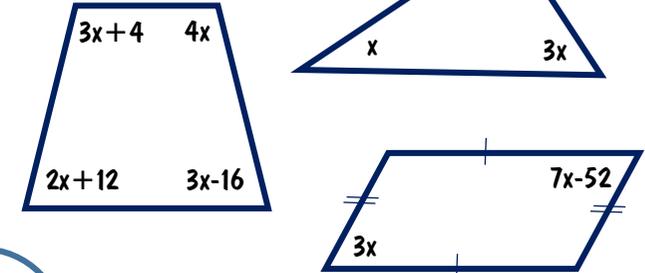
Work out the value of x in each of the shapes.

Step 2

5x
3x+4   4x   x   3x

2x+12   3x-16

7x-52
3x

Step 4

114°
5x-147°   2x

Work out the size of the smallest angle in the kite.

Extension

3x + 4   5x - 1

4x + 5

The perimeter of a square has the same perimeter as the rectangle above. If x=4cm work out the area of the square.

Step 3
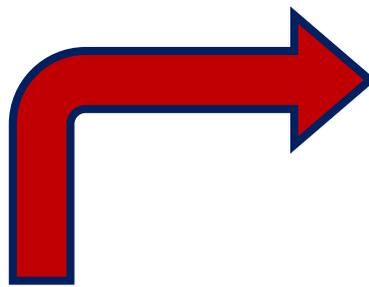
Work out the value of:

a) 7x when x=25
b) 4x − 15 when x = 13
c) 3x + 29 when x = 17
d) 5x − 4 when x = 9
e) 9x − 26 when x = 4

3x   3x + 2y
5x-92°

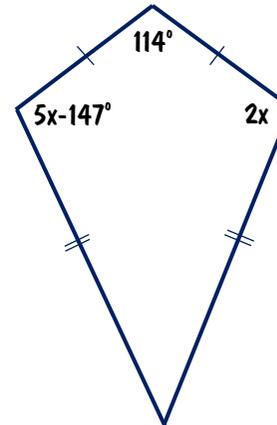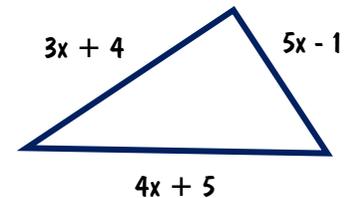Work out the value of x and use this to work out the value of y.
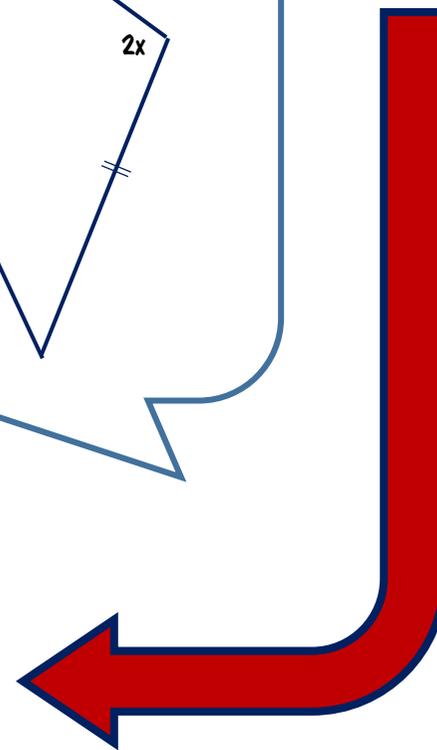
What are the properties of a parallelogram?