

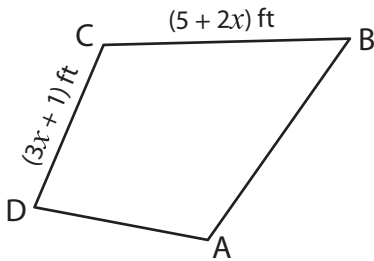
Name : _____

Perimeter of a Kite

Sheet 1

Solve for x and find the indicated side lengths of each kite.

1)



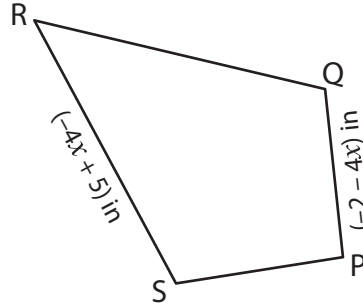
Perimeter = 32 ft

$x =$ _____

BC = _____

CD = _____

2)



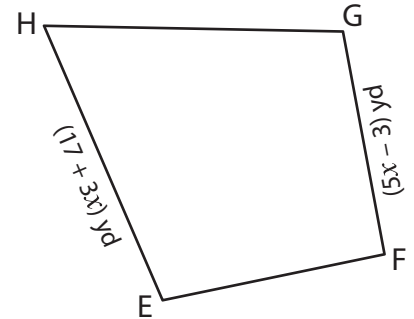
Perimeter = 86 in

$x =$ _____

RS = _____

PQ = _____

3)



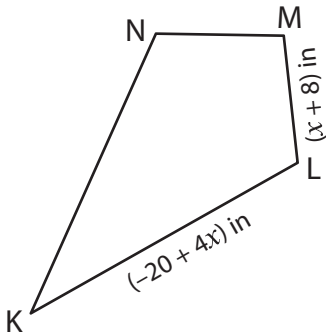
Perimeter = 140 yd

$x =$ _____

FG = _____

EH = _____

4)



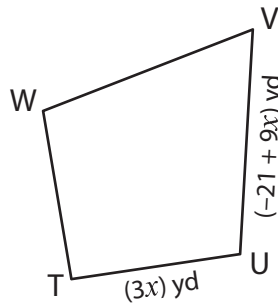
Perimeter = 196 in

$x =$ _____

KL = _____

LM = _____

5)



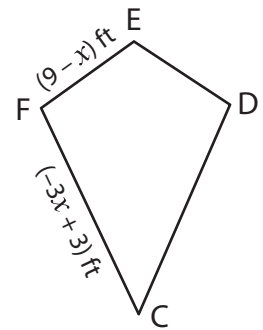
Perimeter = 54 yd

$x =$ _____

TU = _____

UV = _____

6)



Perimeter = 144 ft

$x =$ _____

EF = _____

CF = _____

7) The side lengths of a kite are $(2x + 3)$ yards and $(6x - 1)$ yards. If the perimeter is 100 yards, determine the value of x and the side lengths of the kite.

Name : _____

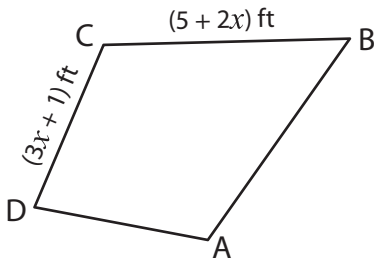
Answer key

Sheet 1

Perimeter of a Kite

Solve for x and find the indicated side lengths of each kite.

1)



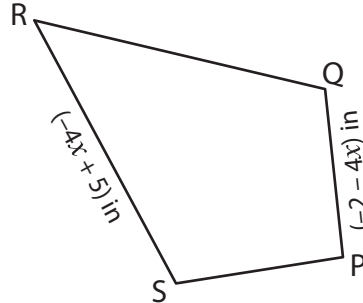
Perimeter = 32 ft

$x =$ 2

BC = 9 ft

CD = 7 ft

2)



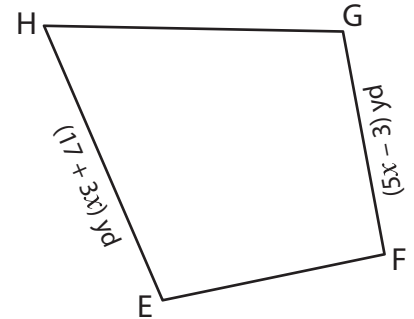
Perimeter = 86 in

$x =$ -5

RS = 25 in

PQ = 18 in

3)



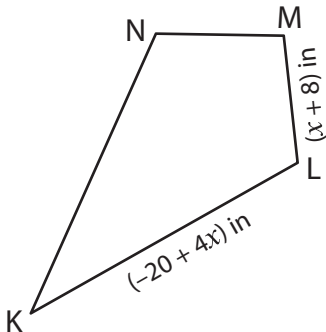
Perimeter = 140 yd

$x =$ 7

FG = 32 yd

EH = 38 yd

4)



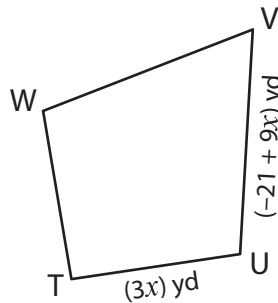
Perimeter = 196 in

$x =$ 22

KL = 68 in

LM = 30 in

5)



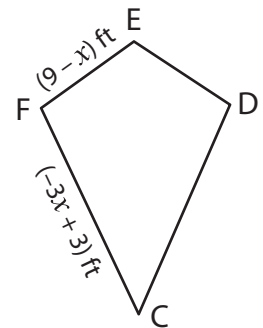
Perimeter = 54 yd

$x =$ 4

TU = 12 yd

UV = 15 yd

6)



Perimeter = 144 ft

$x =$ -15

EF = 24 ft

CF = 48 ft

7) The side lengths of a kite are $(2x + 3)$ yards and $(6x - 1)$ yards. If the perimeter is 100 yards, determine the value of x and the side lengths of the kite.

$x = 6, 15$ yards and 35 yards