

Name : \_\_\_\_\_

## Area of a Kite

Sheet 3

A) Find the length of the unknown diagonal of each kite for the given measurements.

- 1) Area =  $1,684.76 \text{ in}^2$ , diagonal 2 =  $54.7 \text{ in}$       2) Area =  $87.4 \text{ ft}^2$ , diagonal 1 =  $19 \text{ ft}$

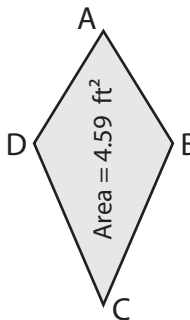
diagonal 1 = \_\_\_\_\_

diagonal 2 = \_\_\_\_\_

- 3) Area =  $24.7 \text{ ft}^2$ , diagonal 1 =  $7.6 \text{ ft}$       4) Area =  $432 \text{ yd}^2$ , diagonal 2 =  $38.4 \text{ yd}$

diagonal 2 = \_\_\_\_\_

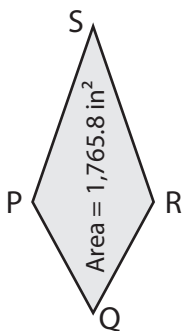
5)



AC =  $5.1 \text{ ft}$ . Find BE.

\_\_\_\_\_

7)



QS =  $64.8 \text{ in}$ . Find PR.

\_\_\_\_\_

LN =  $17.2 \text{ in}$ . Find KM.

\_\_\_\_\_

- 9) A kite has an area of  $212 \text{ square yards}$ . If one of the diagonals measures  $42.4 \text{ yards}$ , find the length of the other diagonal.

\_\_\_\_\_

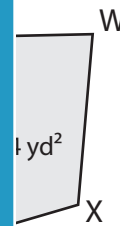
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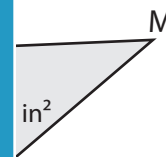
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1 yd<sup>2</sup>



1 in<sup>2</sup>

**Area of a Kite**

A) Find the length of the unknown diagonal of each kite for the given measurements.

- 1) Area = 1,684.76 in<sup>2</sup>, diagonal 2 = 54.7 in      2) Area = 87.4 ft<sup>2</sup>, diagonal 1 = 19 ft

diagonal 1 = 61.6 in

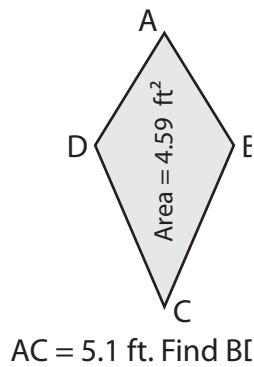
diagonal 2 = 9.2 ft

- 3) Area = 24.7 ft<sup>2</sup>, diagonal 1 = 7.6 ft      4) Area = 432 yd<sup>2</sup>, diagonal 2 = 38.4 yd

diagonal 2 = \_\_\_\_\_

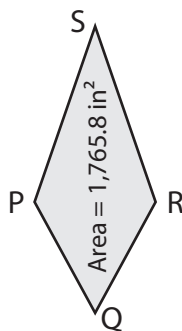
22.5 yd

5)



BD = 1.8 ft

7)



PR = 54.5 in

LN = 17.2 in. Find KM.

KM = 20.7 in

- 9) A kite has an area of 212 square yards. If one of the diagonals measures 42.4 yards, find the length of the other diagonal.

10 yards

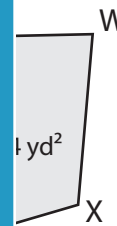
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LN = 17.2 in. Find KM.

