

Name : _____

Area of a Kite

Sheet 1

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

- 1) Area = $2,545.86 \text{ yd}^2$, diagonal 2 = 84.3 yd 2) Area = 4.4 ft^2 , diagonal 1 = 4 ft

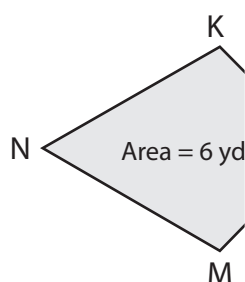
diagonal 1 = _____

diagonal 2 = _____

- 3) Area = 12.1 in^2 , diagonal 1 = 5.5 in 4) Area = 532.17 yd^2 , diagonal 2 = 21.9 yd

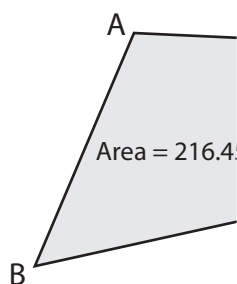
diagonal 2 = _____

5)



$KM = 2.4 \text{ yd}$. Find NL .

7)



$AC = 11.7 \text{ ft}$. Find BD .

$TV = 52.5 \text{ ft}$. Find UW .

- 9) A kite has an area of 604.35 square inches. If one of the diagonals measures 30.6 inches, find the length of the other diagonal.

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Name : _____

Answer key

Sheet 1

Area of a Kite

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

- 1) Area = 2,545.86 yd², diagonal 2 = 84.3 yd 2) Area = 4.4 ft², diagonal 1 = 4 ft

diagonal 1 = 60.4 yd

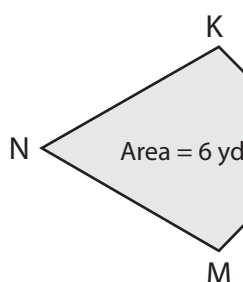
diagonal 2 = 2.2 ft

- 3) Area = 12.1 in², diagonal 1 = 5.5 in 4) Area = 532.17 yd², diagonal 2 = 21.9 yd

diagonal 2 = _____

48.6 yd

5)



LN = 5 yd

PREVIEW

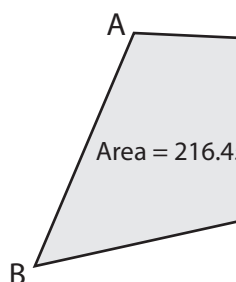
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7)



BD = 37 ft

TV = 52.5 ft. Find UW.

UW = 45.2 ft

- 9) A kite has an area of 604.35 square inches. If one of the diagonals measures 30.6 inches, find the length of the other diagonal.

39.5 inches