

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

## Area of a Kite

Sheet 1

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

1) Area =  $874 \text{ ft}^2$ , diagonal 1 = 38 ft

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

2) Area =  $6 \text{ yd}^2$ , diagonal 2 = 8 yd

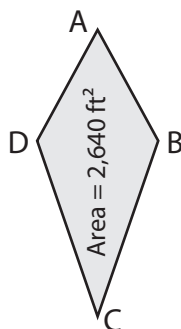
diagonal 1 = \_\_\_\_\_

3) Area =  $14 \text{ in}^2$ , diagonal 2 = 4 in

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

4) Area =  $248 \text{ ft}^2$ , diagonal 1 = 16 ft

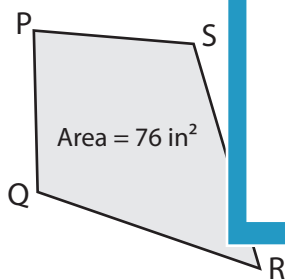
5)



AC = 88 ft. Find BD

\_\_\_\_\_

7)



QS = 10 in. Find PR.

\_\_\_\_\_

EG = 42 yd. Find FH.

\_\_\_\_\_

9) The area of a kite is 114 square yards. If one of the diagonals measures 24 yards, determine 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 =  $874 \text{ ft}^2$ , diagonal 1 = 38 ft

diagonal 2 = 46 ft

2) Area =  $6 \text{ yd}^2$ , diagonal 2 = 8 yd

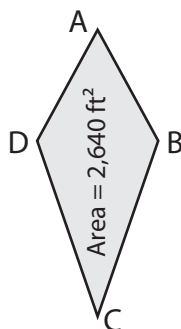
diagonal 1 = 1.5 yd

3) Area =  $14 \text{ in}^2$ , diagonal 2 = 4 in

4) Area =  $248 \text{ ft}^2$ , diagonal 1 = 16 ft

diagonal 1 = \_\_\_\_\_ 31 ft \_\_\_\_\_

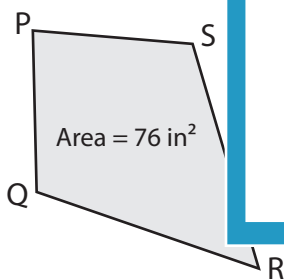
5)



AC = 88 ft. Find BD

BD = 60 ft

7)



QS = 10 in. Find PR.

PR = 15.2 in

EG = 42 yd. Find FH.

FH = 21 yd

9) The area of a kite is 114 square yards. If one of the diagonals measures 24 yards, determine the length of the other diagonal.

9.5 yards

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