

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

## Area of a Rhombus

T2S3

A) Find the area of each rhombus for the given measurements.

1) diagonal 1 = 9 ft, diagonal 2 =  $\frac{10}{3}$  ft

Area = \_\_\_\_\_

2) diagonal 1 =  $\frac{18}{5}$  yd, diagonal 2 =  $\frac{7}{9}$  yd

Area = \_\_\_\_\_

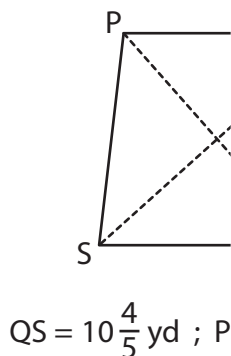
3) diagonal 1 =  $\frac{5}{8}$  in, diagonal 2 =  $1\frac{9}{25}$  in

Area = \_\_\_\_\_

4) diagonal 1 =  $1\frac{3}{4}$  ft, diagonal 2 =  $\frac{20}{3}$  ft

B) Find the area of each rhombus.

5)



Area = \_\_\_\_\_

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7) The lengths of the diagonals are \_\_\_\_\_

\_\_\_\_\_ the area.

\_\_\_\_\_

8) What is the area of the rhombus, if the diagonals measure  $3\frac{1}{6}$  yards and 6 yards?

\_\_\_\_\_

**Area of a Rhombus**

A) Find the area of each rhombus for the given measurements.

1) diagonal 1 = 9 ft, diagonal 2 =  $\frac{10}{3}$  ft

Area = 15 ft<sup>2</sup>

2) diagonal 1 =  $\frac{18}{5}$  yd, diagonal 2 =  $\frac{7}{9}$  yd

Area =  $\frac{7}{5}$  or  $1\frac{2}{5}$  yd<sup>2</sup>

3) diagonal 1 =  $\frac{5}{8}$  in, diagonal 2 =  $1\frac{9}{25}$  in

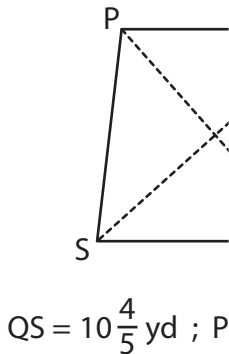
Area =  $\frac{17}{40}$

4) diagonal 1 =  $1\frac{3}{4}$  ft, diagonal 2 =  $\frac{20}{3}$  ft

Area =  $25\frac{5}{6}$  ft<sup>2</sup>

B) Find the area of each rhombus.

5)



Area =  $\frac{27}{2}$  or 13.5

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Area =  $\frac{5}{7}$  in<sup>2</sup>

7) The lengths of the diagonals are 1/3 ft and 1/9 ft. Find the area.

$\frac{1}{9}$  square foot

8) What is the area of the rhombus, if the diagonals measure  $3\frac{1}{6}$  yards and 6 yards?

$\frac{19}{2}$  or  $9\frac{1}{2}$  square yards