

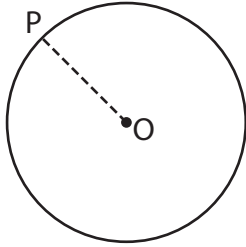
Name : _____

Area – Mixed Shapes

L3S2

Find the area of each shape. (Use $\pi = \frac{22}{7}$)

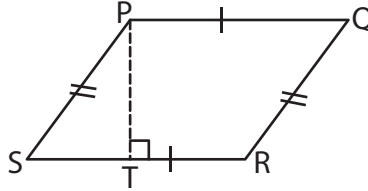
1)



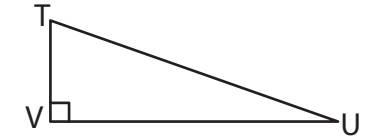
$$OP = \frac{7}{12} \text{ yd}$$

Area =

2)



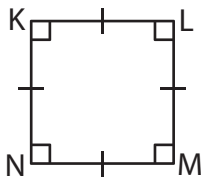
$$PT = 2 \frac{1}{4} \text{ ft} \cdot RS = 9 \frac{3}{4} \text{ ft}$$



$$VU = 14 \text{ in} ; TV = \frac{27}{7} \text{ in}$$

Area =

4)



$$NM = 2 \frac{2}{3} \text{ ft}$$

Area =

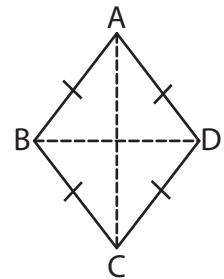
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$$BD = \frac{13}{9} \text{ yd} ; AC = \frac{9}{4} \text{ yd}$$

Area =

7) The parallel bases of a trapezoid are 12 feet and 18 feet. The perpendicular distance between the bases is 8 feet, determine the area of the trapezoid.

perpendicular distance between

8) The lengths of the diagonals of a kite are $\frac{11}{17}$ inch and 34 inches. What is the area of the kite?

Name : _____

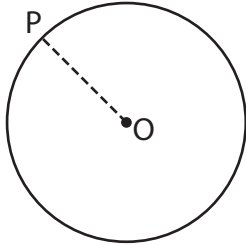
Answer key

Area – Mixed Shapes

L3S2

Find the area of each shape. (Use $\pi = \frac{22}{7}$)

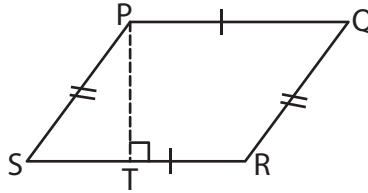
1)



$OP = \frac{7}{12} \text{ yd}$

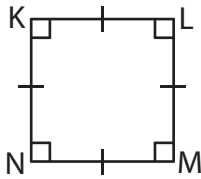
Area = $\frac{77}{72}$ or $1 \frac{5}{72} \text{ yd}^2$

2)



$PT = 2 \frac{1}{4} \text{ ft} \cdot RS = 9 \frac{3}{4} \text{ ft}$

4)



$NM = 2 \frac{2}{3} \text{ ft}$

Area = $\frac{64}{9}$ or $7 \frac{1}{9} \text{ ft}^2$

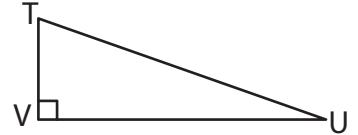
7) The parallel bases of a trapezoid are 10 feet and 15 feet. The perpendicular distance between the bases is 8 feet, determine the area of the trapezoid.

$\frac{65}{2}$ or $32 \frac{1}{2}$ square feet

8) The lengths of the diagonals of a kite are $\frac{11}{17}$ inch and 34 inches. What is the area of the kite?

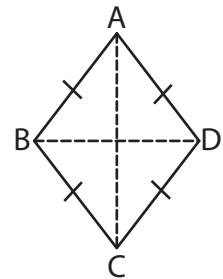
11 square inches

3)



$VU = 14 \text{ in} ; TV = \frac{27}{7} \text{ in}$

Area = 27 in^2



$BD = \frac{13}{9} \text{ yd} ; AC = \frac{9}{4} \text{ yd}$

Area = $\frac{13}{8}$ or $1 \frac{5}{8} \text{ yd}^2$

perpendicular distance between

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