

Area Review (Chapter 11)

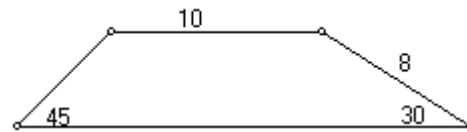
Alpha Geometry, Glawe

Name: _____

Date: _____

1. The length of a rectangle is 12 cm less than three times its width. The area of the rectangle is 231 cm^2 . Find the length and width.

2. Given the trapezoid shown find the area

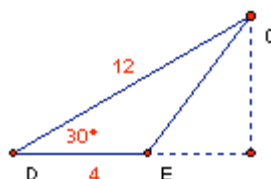


3. The area of a rhombus is 64 sq. cm . Find the lengths of the diagonals if they are in a ratio of 2:1.

4. Find the area of an equilateral triangle whose side length is $8\sqrt{3}$ inches.

5. Find the area of the region formed by a square with a side length of 6 and an equilateral triangle with the same side length.

6. Find the area of the triangle shown.



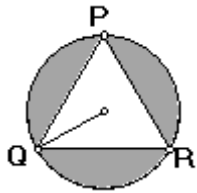
7. Find the area of a regular hexagon whose apothem measures 6.

8. Find the area of the shaded regions of the following figures.

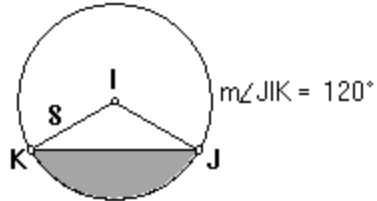
a)

radius of the
circle = 16

QPR is
equilateral



b)

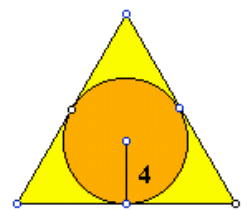


9. Find the area of a parallelogram with sides of 6 cm and 10 cm and an included angle of 45 degrees.

10. If two similar trapezoids have corresponding bases of 8 and 12 cm, and the area of the smaller trapezoid is 100 cm^2 , find the area of the larger trapezoid.

11. Find the area of a regular pentagon with side length of 10 cm.

12. Given an equilateral triangle with an inscribed circle of radius 4, find the area of the yellow shaded region.



area of light yellow
region