

Homework 4.1 due Mon 12/2 *4 Problems Require Work*

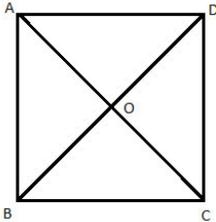
16 Questions

NAME : _____

CLASS : _____

DATE : _____

1.



Given square ABCD, if $AD = 12$, what is its perimeter?

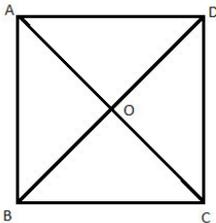
a) 12

b) 48

c) 50

d) 38

2.



Given square ABCD, if $AO = 7$, what is BD ?

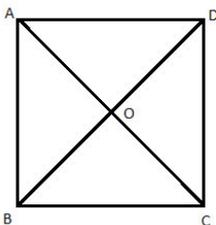
a) 7

b) 90

c) 28

d) 14

3.



Which four properties of squares are always true?

a) Angles at the center are all 90 degrees

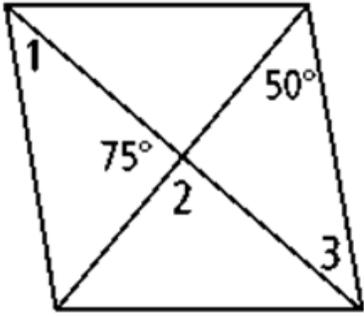
b) The perimeters and areas of squares are the same amount

c) All four sides are equal

d) Diagonals are equal and perpendicular to one another

e) One diagonal creates two special 45-45-90 triangles

8.



The figure is a parallelogram. Find the measure of $\angle 2$.

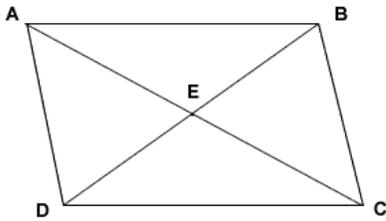
a) 105

b) 50

c) 130

d) 55

9.



Given parallelogram ABCD, which three properties are always true?

a) $AE = DE$

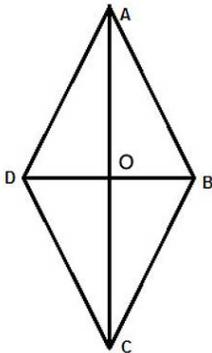
b) $AD = BC$

c) measure of Angle ABC = measure of Angle ADC

d) measure of Angle BEC = measure of Angle AEB

e) $DE = BE$

10.



Given rhombus ABCD, if the perimeter is 64 units, what is AB?

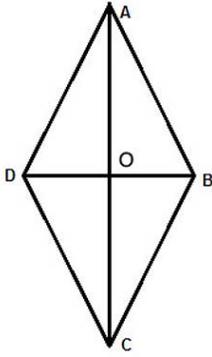
a) 32

b) 16

c) 64

d) 28

11.



Given rhombus ABCD, if $BO = 5$, what is BD ?

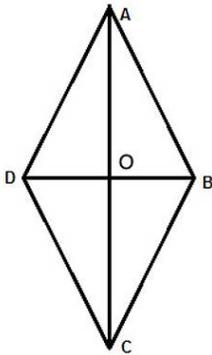
a) 5

b) 10

c) 2.5

d) 20

12.



Given rhombus ABCD, if Angle ABO measures 60 degrees, what does Angle ADO measure?

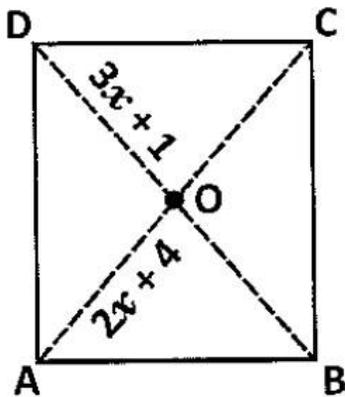
a) 60

b) 30

c) 90

d) 120

13.



WORK REQUIRED: if ABCD is a rectangle (or square), solve for x

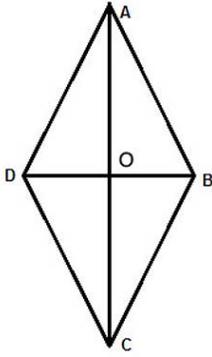
a) $x = 5$

b) $x = 1$

c) $x = 17$

d) $x = 3$

14.



WORK REQUIRED: Rhombus ABCD has a perimeter of 40 and $DB = 12$. What is the length of AC? *hint, you must use the pythagorean theorem!*

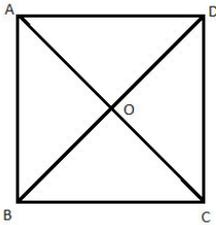
a) 8

b) 28

c) 16

d) 20

15.



WORK REQUIRED: Given square ABCD such that $AD = x + 5$ and the perimeter is 60. Solve for x

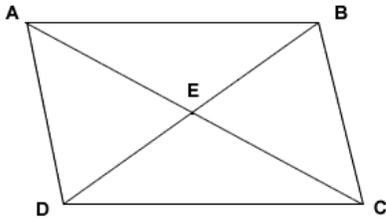
a) $x = 55$

b) $x = 5$

c) $x = 20$

d) $x = 10$

16.



WORK REQUIRED: In parallelogram ABCD, if $AB = 3x - 40$ and $DC = 20$, solve for x

a) $x = 20$

b) $x = 6.7$

c) $x = 14$

d) $x = 10$