Period _____ Name _____

Unit 10 Review - Area

Draw and label a figure that demonstrates the given information. State the area formula for that shape and solve for the area, showing your work.

1. A square with a diagonal of $3\sqrt{2}$.

2. An isosceles triangle with sides 10, 10 and 16.

3. A trapezoid with bases 6 and 9 and height 8.

4. A rhombus with diagonals 6 and $6\sqrt{3}$.
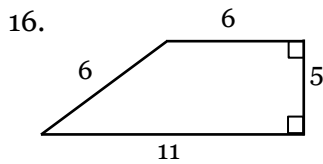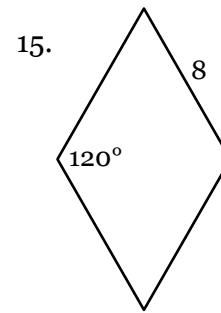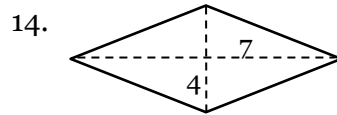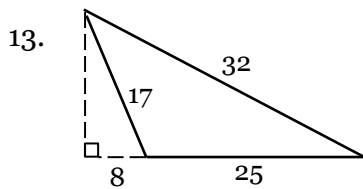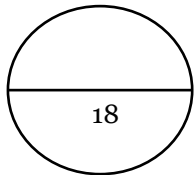
5. A regular hexagon with side 4 and apothem $2\sqrt{3}$

6. A circle with diameter 12.

Find the area of each polygon. State the area formula you are using.

7.

5

8.

30°
$6\sqrt{3}$

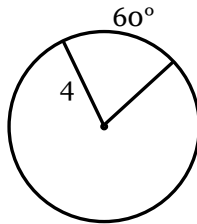9.

12
2 3
3

10.

7
8
12

11.

8
45° $2\sqrt{2}$

12.

7   7
10

13.

32

17

8   25

14.

.7.

4

15.

8

120°

16.

6

6

5

11

17.

10   10

60°

18

18.

5

7   4

10
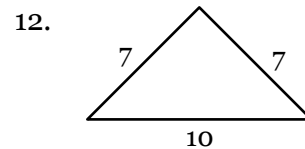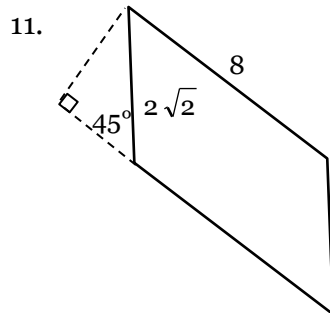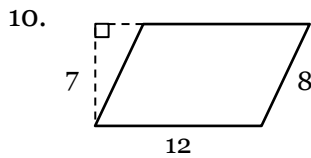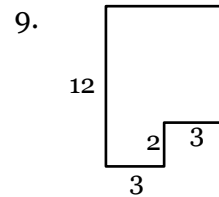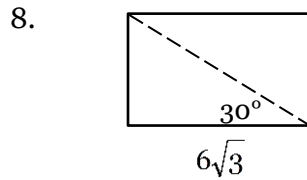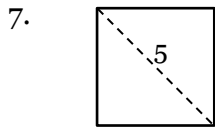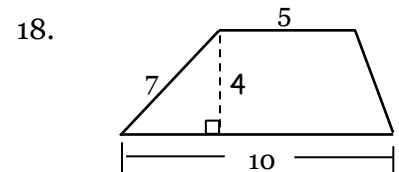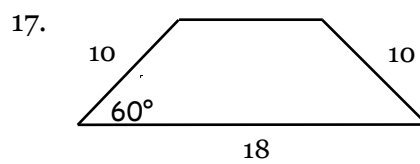
19. Find each missing value.
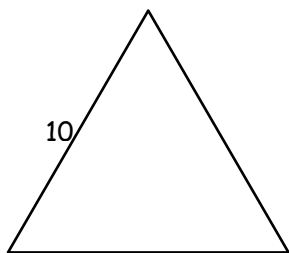
18

r = _____

d = _____

A = _____   C = _____

20. Find the area and arc length of the smaller sector.

60°

4

Area = _____   Length = _____

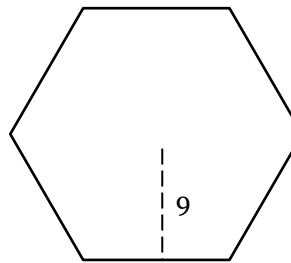Find all the values for each regular polygon.

21.

10

s = _____

P = _____

a = _____

r = _____

A = _____

22.

9

s = _____

P = _____

a = _____

r = _____

A = _____