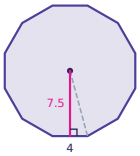
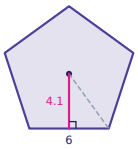
Area of Regular Polygons (Apothem) · 1

A regular dodecagon has side length 4 and apothem 7.5. Find its area.



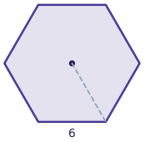
Area of Regular Polygons (Apothem) · 2

A regular pentagon has side length 6 and apothem 4.1. Find its area.



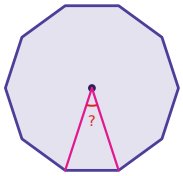
Area of Regular Polygons (Apothem) · 3

Find the area of a regular hexagon with side length 6. Write your answer in simplest radical form.



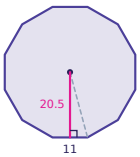
Area of Regular Polygons (Apothem) · 4

Find the measure of a central angle of a regular decagon.



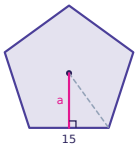
Area of Regular Polygons (Apothem) · 5

A regular dodecagon has side length 11 and apothem 20.5. Find its area.



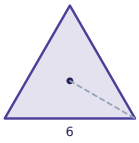
Area of Regular Polygons (Apothem) · 6

A regular pentagon has side length 15 and area 387. Find its apothem.



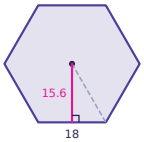
Area of Regular Polygons (Apothem) · 7

Find the area of an equilateral triangle with side length 6. Write your answer in simplest radical form.



Area of Regular Polygons (Apothem) · 8

A regular hexagon has side length 18 and apothem 15.6. Find its area.



Area of Regular Polygons (Apothem) · 2

ANSWER

61.5

Area of Regular Polygons (Apothem) · 1

ANSWER

180

Area of Regular Polygons (Apothem) · 4

ANSWER

36°

Area of Regular Polygons (Apothem) · 3

ANSWER

54√3

Area of Regular Polygons (Apothem) · 6

ANSWER

10.3

Area of Regular Polygons (Apothem) · 5

ANSWER

1353

Area of Regular Polygons (Apothem) · 8

ANSWER

842.4

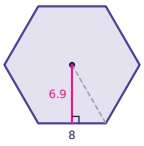
Area of Regular Polygons (Apothem) · 7

ANSWER

9√3

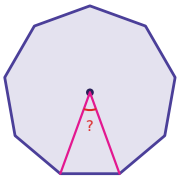
Area of Regular Polygons (Apothem) · 9

A regular hexagon has side length 8 and apothem 6.9. Find its area.



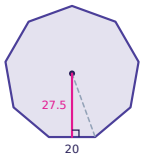
Area of Regular Polygons (Apothem) · 10

Find the measure of a central angle of a regular nonagon.



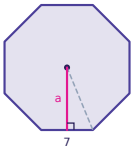
Area of Regular Polygons (Apothem) · 11

A regular nonagon has side length 20 and apothem 27.5. Find its area.



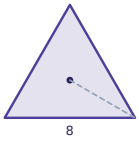
Area of Regular Polygons (Apothem) · 12

A regular octagon has side length 7 and area 237. Find its apothem.



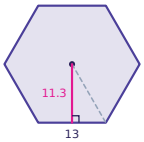
Area of Regular Polygons (Apothem) · 13

Find the area of an equilateral triangle with side length 8. Write your answer in simplest radical form.



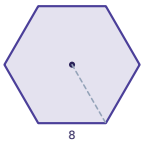
Area of Regular Polygons (Apothem) · 14

A regular hexagon has side length 13 and apothem 11.3. Find its area.



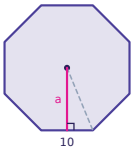
Area of Regular Polygons (Apothem) · 15

Find the area of a regular hexagon with side length 8. Write your answer in simplest radical form.



Area of Regular Polygons (Apothem) · 16

A regular octagon has side length 10 and area 483. Find its apothem.



Area of Regular Polygons (Apothem) · 10

ANSWER

40°

Area of Regular Polygons (Apothem) · 9

ANSWER

165.6

Area of Regular Polygons (Apothem) · 12

ANSWER

8.5

Area of Regular Polygons (Apothem) · 11

ANSWER

2475

Area of Regular Polygons (Apothem) · 14

ANSWER

440.7

Area of Regular Polygons (Apothem) · 13

ANSWER

16√3

Area of Regular Polygons (Apothem) · 16

ANSWER

12.1

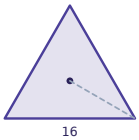
Area of Regular Polygons (Apothem) · 15

ANSWER

96√3

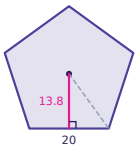
Area of Regular Polygons (Apothem) · 17

Find the area of an equilateral triangle with side length 16. Write your answer in simplest radical form.



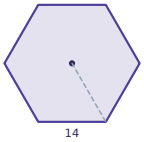
Area of Regular Polygons (Apothem) · 18

A regular pentagon has side length 20 and apothem 13.8. Find its area.



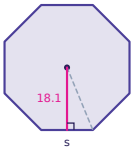
Area of Regular Polygons (Apothem) · 19

Find the area of a regular hexagon with side length 14. Write your answer in simplest radical form.



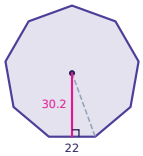
Area of Regular Polygons (Apothem) · 20

A regular octagon has apothem 18.1 and area 1086. Find its side length.



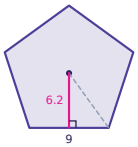
Area of Regular Polygons (Apothem) · 21

A regular nonagon has side length 22 and apothem 30.2. Find its area.



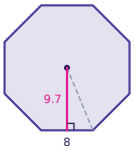
Area of Regular Polygons (Apothem) · 22

A regular pentagon has side length 9 and apothem 6.2. Find its area.



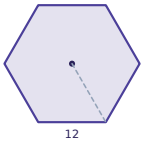
Area of Regular Polygons (Apothem) · 23

A regular octagon has side length 8 and apothem 9.7. Find its area.



Area of Regular Polygons (Apothem) · 24

Find the area of a regular hexagon with side length 12. Write your answer in simplest radical form.



Area of Regular Polygons (Apothem) · 18

ANSWER

690

Area of Regular Polygons (Apothem) · 17

ANSWER

64√3

Area of Regular Polygons (Apothem) · 20

ANSWER

15

Area of Regular Polygons (Apothem) · 19

ANSWER

294√3

Area of Regular Polygons (Apothem) · 22

ANSWER

139.5

Area of Regular Polygons (Apothem) · 21

ANSWER

2989.8

Area of Regular Polygons (Apothem) · 24

ANSWER

216√3

Area of Regular Polygons (Apothem) · 23

ANSWER

310.4