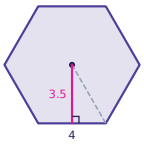
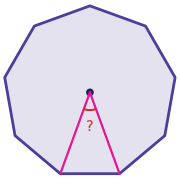
Area of Regular Polygons (Apothem) · 1

A regular hexagon has side length 4 and apothem 3.5. Find its area.



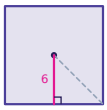

Area of Regular Polygons (Apothem) · 2

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



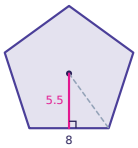

Area of Regular Polygons (Apothem) · 3

A square has an apothem of 6. Find its area.



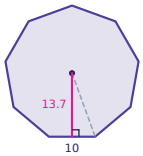

Area of Regular Polygons (Apothem) · 4

A regular pentagon has side length 8 and apothem 5.5. Find its area.



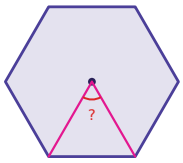

Area of Regular Polygons (Apothem) · 5

A regular nonagon has side length 10 and apothem 13.7. Find its area.



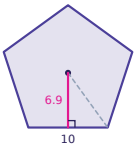

Area of Regular Polygons (Apothem) · 6

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



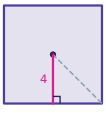

Area of Regular Polygons (Apothem) · 7

A regular pentagon has side length 10 and apothem 6.9. Find its area.




Area of Regular Polygons (Apothem) · 8

A square has an apothem of 4. Find its area.



Area of Regular Polygons (Apothem) · 2

**ANSWER**

**40°**

Area of Regular Polygons (Apothem) · 1

**ANSWER**

**42**

Area of Regular Polygons (Apothem) · 4

**ANSWER**

**110**

Area of Regular Polygons (Apothem) · 3

**ANSWER**

**144**

Area of Regular Polygons (Apothem) · 6

**ANSWER**

**60°**

Area of Regular Polygons (Apothem) · 5

**ANSWER**

**616.5**

Area of Regular Polygons (Apothem) · 8

**ANSWER**

**64**

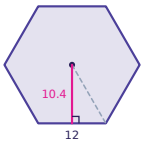
Area of Regular Polygons (Apothem) · 7

**ANSWER**

**172.5**

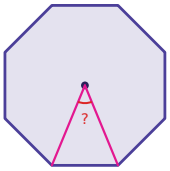
Area of Regular Polygons (Apothem) · 9

A regular hexagon has side length 12 and apothem 10.4. Find its area.



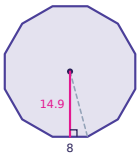

Area of Regular Polygons (Apothem) · 10

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



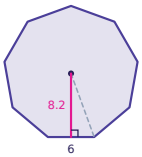

Area of Regular Polygons (Apothem) · 11

A regular dodecagon has side length 8 and apothem 14.9. Find its area.



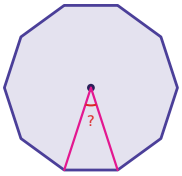

Area of Regular Polygons (Apothem) · 12

A regular nonagon has side length 6 and apothem 8.2. Find its area.



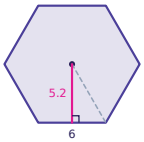

Area of Regular Polygons (Apothem) · 13

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



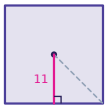

Area of Regular Polygons (Apothem) · 14

A regular hexagon has side length 6 and apothem 5.2. Find its area.



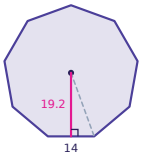

Area of Regular Polygons (Apothem) · 15

A square has an apothem of 11. Find its area.




Area of Regular Polygons (Apothem) · 16

A regular nonagon has side length 14 and apothem 19.2. Find its area.



Area of Regular Polygons (Apothem) · 10

**ANSWER**

**45°**

Area of Regular Polygons (Apothem) · 9

**ANSWER**

**374.4**

Area of Regular Polygons (Apothem) · 12

**ANSWER**

**221.4**

Area of Regular Polygons (Apothem) · 11

**ANSWER**

**715.2**

Area of Regular Polygons (Apothem) · 14

**ANSWER**

**93.6**

Area of Regular Polygons (Apothem) · 13

**ANSWER**

**36°**

Area of Regular Polygons (Apothem) · 16

**ANSWER**

**1209.6**

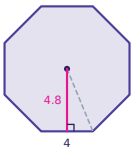
Area of Regular Polygons (Apothem) · 15

**ANSWER**

**484**

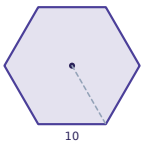
Area of Regular Polygons (Apothem) · 17

A regular octagon has side length 4 and apothem 4.8. Find its area.



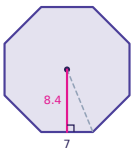

Area of Regular Polygons (Apothem) · 18

Find the area of a regular hexagon with side length 10. Write your answer in simplest radical form.



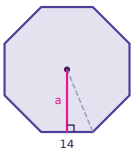

Area of Regular Polygons (Apothem) · 19

A regular octagon has side length 7 and apothem 8.4. Find its area.



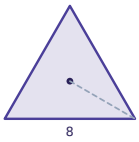

Area of Regular Polygons (Apothem) · 20

A regular octagon has side length 14 and area 946. Find its apothem.



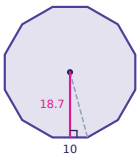

Area of Regular Polygons (Apothem) · 21

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



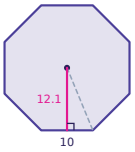

Area of Regular Polygons (Apothem) · 22

A regular dodecagon has side length 10 and apothem 18.7. Find its area.



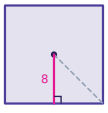

Area of Regular Polygons (Apothem) · 23

A regular octagon has side length 10 and apothem 12.1. Find its area.




Area of Regular Polygons (Apothem) · 24

A square has an apothem of 8. Find its area.



Area of Regular Polygons (Apothem) · 18

**ANSWER**

**$150\sqrt{3}$**

Area of Regular Polygons (Apothem) · 17

**ANSWER**

**76.8**

Area of Regular Polygons (Apothem) · 20

**ANSWER**

**16.9**

Area of Regular Polygons (Apothem) · 19

**ANSWER**

**235.2**

Area of Regular Polygons (Apothem) · 22

**ANSWER**

**1122**

Area of Regular Polygons (Apothem) · 21

**ANSWER**

**$16\sqrt{3}$**

Area of Regular Polygons (Apothem) · 24

**ANSWER**

**256**

Area of Regular Polygons (Apothem) · 23

**ANSWER**

**484**