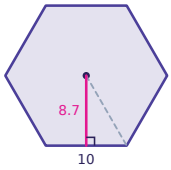
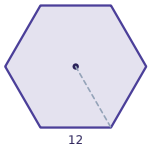
Task card 1 Area of Regular Polygons (Apothem)

A regular hexagon has side length 10 and apothem 8.7. Find its area.



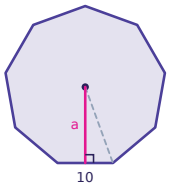
Task card 2 Area of Regular Polygons (Apothem)

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



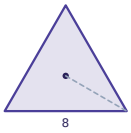
Task card 3 Area of Regular Polygons (Apothem)

A regular nonagon has side length 10 and area 618. Find its apothem.



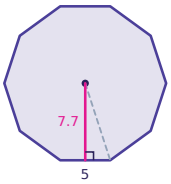
Task card 4 Area of Regular Polygons (Apothem)

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



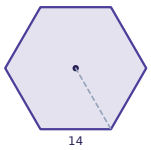
Task card 5 Area of Regular Polygons (Apothem)

A regular decagon has side length 5 and apothem 7.7. Find its area.



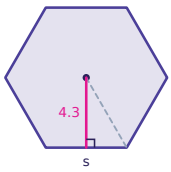
Task card 6 Area of Regular Polygons (Apothem)

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



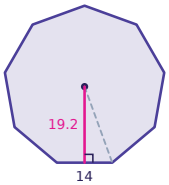
Task card 7 Area of Regular Polygons (Apothem)

A regular hexagon has apothem 4.3 and area 64.5. Find its side length.



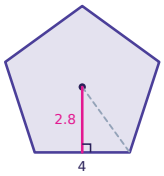
Task card 8 Area of Regular Polygons (Apothem)

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



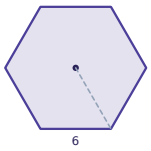
Task card 9 Area of Regular Polygons (Apothem)

A regular pentagon has side length 4 and apothem 2.8. Find its area.



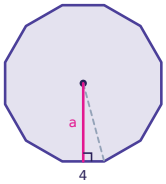
Task card 10 Area of Regular Polygons (Apothem)

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



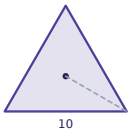
Task card 11 Area of Regular Polygons (Apothem)

A regular dodecagon has side length 4 and area 179. Find its apothem.



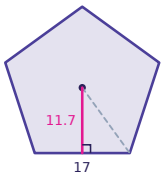
Task card 12 Area of Regular Polygons (Apothem)

Find the area of an equilateral triangle with side length 10. Write your answer in simplest radical form.



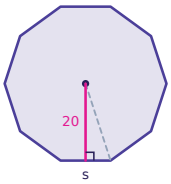
Task card 13 Area of Regular Polygons (Apothem)

A regular pentagon has side length 17 and apothem 11.7. Find its area.



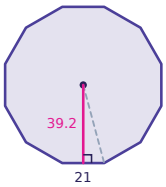
Task card 14 Area of Regular Polygons (Apothem)

A regular decagon has apothem 20 and area 1300. Find its side length.



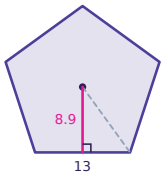
Task card 15 Area of Regular Polygons (Apothem)

A regular dodecagon has side length 21 and apothem 39.2. Find its area.



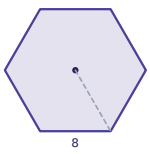
Task card 16 Area of Regular Polygons (Apothem)

A regular pentagon has side length 13 and apothem 8.9. Find its area.



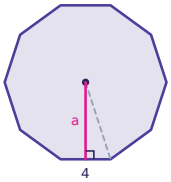
Task card 17 Area of Regular Polygons (Apothem)

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



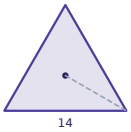
Task card 18 Area of Regular Polygons (Apothem)

A regular decagon has side length 4 and area 123. Find its apothem.



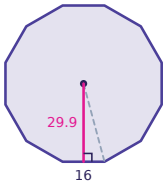
Task card 19 Area of Regular Polygons (Apothem)

Find the area of an equilateral triangle with side length 14. Write your answer in simplest radical form.



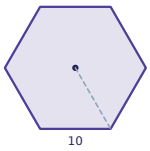
Task card 20 Area of Regular Polygons (Apothem)

A regular dodecagon has side length 16 and apothem 29.9. Find its area.



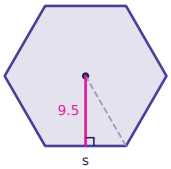
Task card 21 Area of Regular Polygons (Apothem)

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



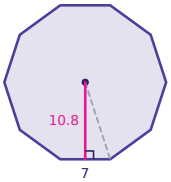
Task card 22 Area of Regular Polygons (Apothem)

A regular hexagon has apothem 9.5 and area 313.5. Find its side length.



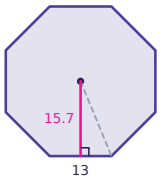
Task card 23 Area of Regular Polygons (Apothem)

A regular decagon has side length 7 and apothem 10.8. Find its area.



Task card 24 Area of Regular Polygons (Apothem)

A regular octagon has side length 13 and apothem 15.7. Find its area.



Area of Regular Polygons (Apothem) Task Cards

Recording sheet · Grade 10 · Round to the nearest tenth when the answer is not a whole number. When asked for simplest radical form, write answers like 24√3.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Area of Regular Polygons (Apothem) Task Cards: Answer Key

Grade 10 · Hard

The answers online

1. 261	**2.** 216√3	**3.** 13.7
4. 16√3	**5.** 192.5	**6.** 294√3
7. 5	**8.** 1209.6	**9.** 28
10. 54√3	**11.** 7.5	**12.** 25√3
13. 497.3	**14.** 13	**15.** 4939.2
16. 289.3	**17.** 96√3	**18.** 6.2
19. 49√3	**20.** 2870.4	**21.** 150√3
22. 11	**23.** 378	**24.** 816.4