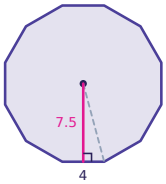
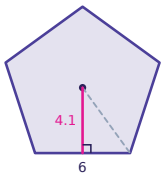
Task card 1 Area of Regular Polygons (Apothem)

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



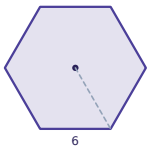
Task card 2 Area of Regular Polygons (Apothem)

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



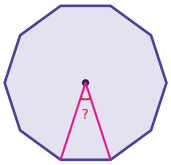
Task card 3 Area of Regular Polygons (Apothem)

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



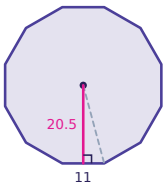
Task card 4 Area of Regular Polygons (Apothem)

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



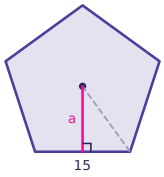
Task card 5 Area of Regular Polygons (Apothem)

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



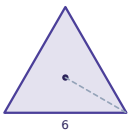
Task card 6 Area of Regular Polygons (Apothem)

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



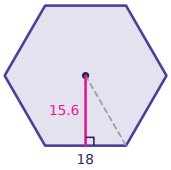
Task card 7 Area of Regular Polygons (Apothem)

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



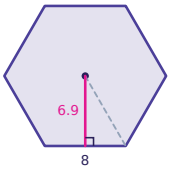
Task card 8 Area of Regular Polygons (Apothem)

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



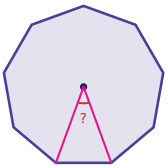
Task card 9 Area of Regular Polygons (Apothem)

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



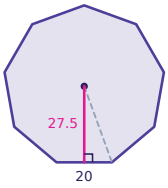
Task card 10 Area of Regular Polygons (Apothem)

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



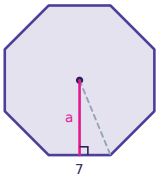
Task card 11 Area of Regular Polygons (Apothem)

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



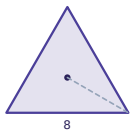
Task card 12 Area of Regular Polygons (Apothem)

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



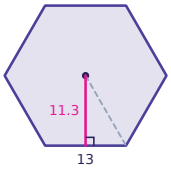
Task card 13 Area of Regular Polygons (Apothem)

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



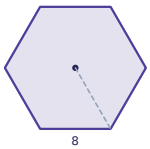
Task card 14 Area of Regular Polygons (Apothem)

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



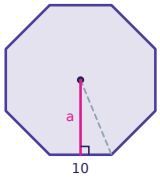
Task card 15 Area of Regular Polygons (Apothem)

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



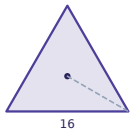
Task card 16 Area of Regular Polygons (Apothem)

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



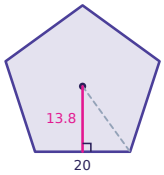
Task card 17 Area of Regular Polygons (Apothem)

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



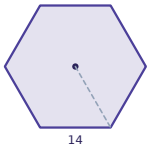
Task card 18 Area of Regular Polygons (Apothem)

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



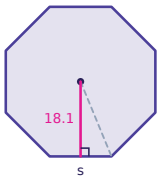
Task card 19 Area of Regular Polygons (Apothem)

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



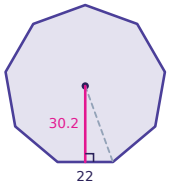
Task card 20 Area of Regular Polygons (Apothem)

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



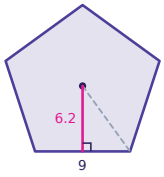
Task card 21 Area of Regular Polygons (Apothem)

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



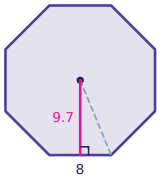
Task card 22 Area of Regular Polygons (Apothem)

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



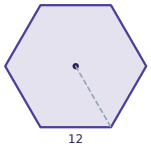
Task card 23 Area of Regular Polygons (Apothem)

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



Task card 24 Area of Regular Polygons (Apothem)

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



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 · Medium

The answers online

1. 180	**2.** 61.5	**3.** 54√3
4. 36°	**5.** 1353	**6.** 10.3
7. 9√3	**8.** 842.4	**9.** 165.6
10. 40°	**11.** 2475	**12.** 8.5
13. 16√3	**14.** 440.7	**15.** 96√3
16. 12.1	**17.** 64√3	**18.** 690
19. 294√3	**20.** 15	**21.** 2989.8
22. 139.5	**23.** 310.4	**24.** 216√3