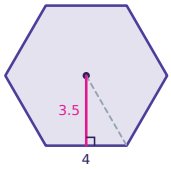
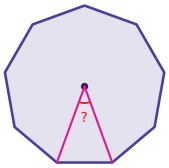
Task card 1 Area of Regular Polygons (Apothem)

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



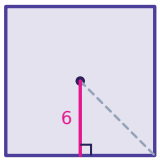
Task card 2 Area of Regular Polygons (Apothem)

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



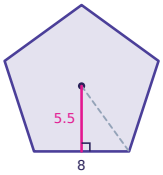
Task card 3 Area of Regular Polygons (Apothem)

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



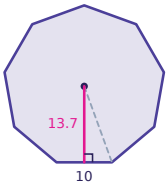
Task card 4 Area of Regular Polygons (Apothem)

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



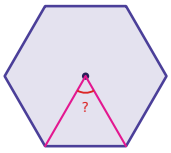
Task card 5 Area of Regular Polygons (Apothem)

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



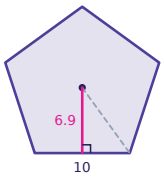
Task card 6 Area of Regular Polygons (Apothem)

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



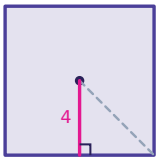
Task card 7 Area of Regular Polygons (Apothem)

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



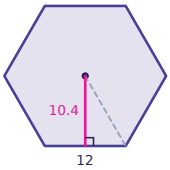
Task card 8 Area of Regular Polygons (Apothem)

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



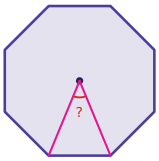
Task card 9 Area of Regular Polygons (Apothem)

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



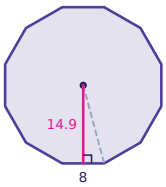
Task card 10 Area of Regular Polygons (Apothem)

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



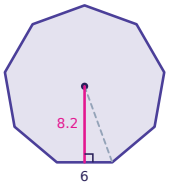
Task card 11 Area of Regular Polygons (Apothem)

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



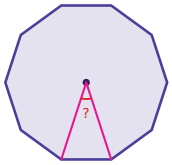
Task card 12 Area of Regular Polygons (Apothem)

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



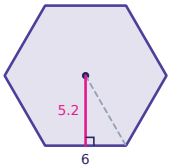
Task card 13 Area of Regular Polygons (Apothem)

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



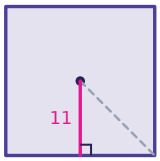
Task card 14 Area of Regular Polygons (Apothem)

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



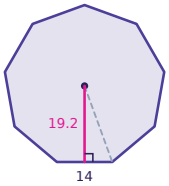
Task card 15 Area of Regular Polygons (Apothem)

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



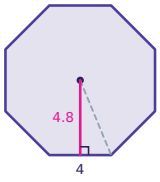
Task card 16 Area of Regular Polygons (Apothem)

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



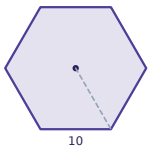
Task card 17 Area of Regular Polygons (Apothem)

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



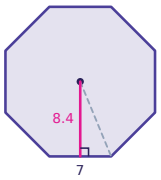
Task card 18 Area of Regular Polygons (Apothem)

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



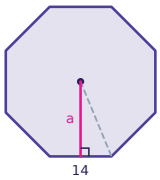
Task card 19 Area of Regular Polygons (Apothem)

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



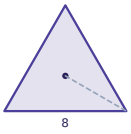
Task card 20 Area of Regular Polygons (Apothem)

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



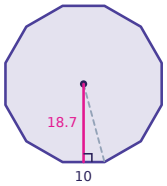
Task card 21 Area of Regular Polygons (Apothem)

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



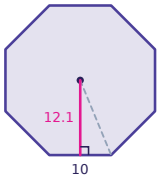
Task card 22 Area of Regular Polygons (Apothem)

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



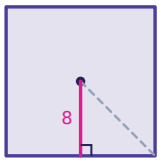
Task card 23 Area of Regular Polygons (Apothem)

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



Task card 24 Area of Regular Polygons (Apothem)

A square has an apothem of 8. 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 · Easy

The answers online

1. 42	**2.** 40°	**3.** 144
4. 110	**5.** 616.5	**6.** 60°
7. 172.5	**8.** 64	**9.** 374.4
10. 45°	**11.** 715.2	**12.** 221.4
13. 36°	**14.** 93.6	**15.** 484
16. 1209.6	**17.** 76.8	**18.** $150\sqrt{3}$
19. 235.2	**20.** 16.9	**21.** $16\sqrt{3}$
22. 1122	**23.** 484	**24.** 256