

9.3 Area of Regular Polygons

NAME: _____

CORRECTIVE ASSIGNMENT

DATE: _____

Draw the regular polygon and find the area. Round your answer to the nearest tenth if necessary.

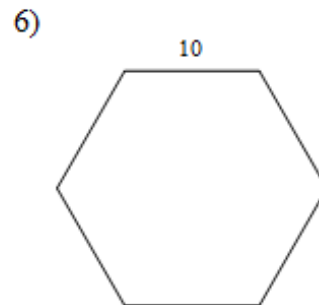
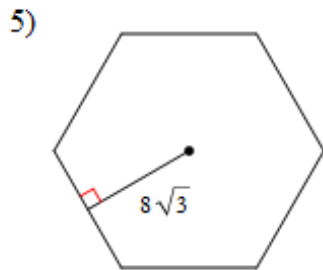
- 1) 7-gon
apothem = 8.3
side = 8

- 2) pentagon
apothem = 8.3
side = 12

- 3) hexagon
apothem = 6.9
side = 8

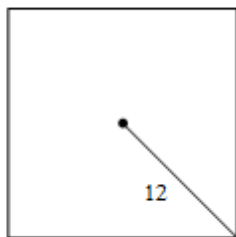
- 4) octagon
apothem = 8
side = 6.6

Find the area of each regular polygon. Round your answer to the nearest tenth if necessary.

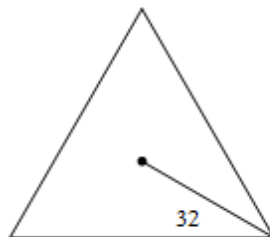


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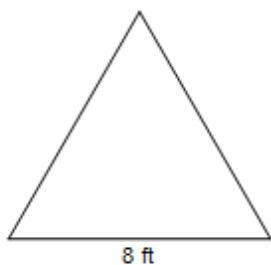
7)



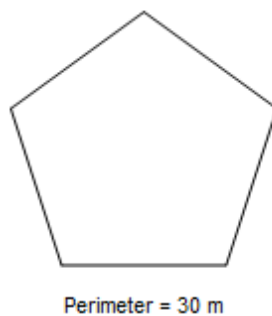
8)



9)



10)



Draw the regular polygon and find the area. Round your answer to the nearest tenth if necessary.

11) A regular hexagon measuring 8 m on each side.

12) An equilateral triangle with a perimeter of 24 km.

13) A regular pentagon 7 in on each side.

14) A square measuring 6 m on each side.

ANSWERS FOR CORRECTIVE ASSIGNMENT 9.3

1) 232.4

5) 665.1

9) 27.7 ft²

13) 84.3 in²

2) 249

6) 259.8

10) 61.9 m²

14) 36 m²

3) 165.6

7) 288

11) 166.3 m²

4) 211.2

8) 1330.2

12) 27.7 km²