Geometry 2-5 Two-Dimensional Figures

Name: _____   Time› Start: _____   Finish: _____   Total Time = _____

Consider the figures below. State whether it is convex or concave, regular or irregular, and what type of polygon it is from the number of sides. Example of an answer could be convex, irregular pentagon.
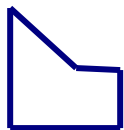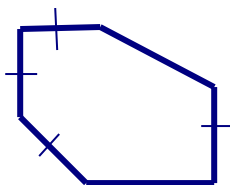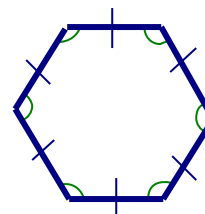
Figure 1

Figure 2
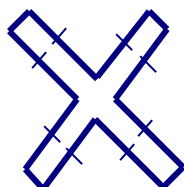

Figure 3
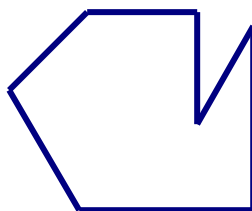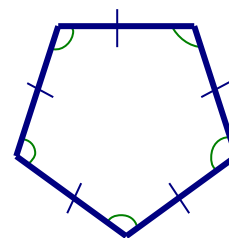

Figure 4

Figure 5

Figure 6

1. _____   2. _____

3. _____   4. _____

5. _____   6. _____

_____ 7. What is the perimeter of a square with a side length of 10 cm?

_____ 8. What is the area of a square with a side length of 5 cm?

_____ 9. What is the area of a circle with a radius of 10 cm?

_____ 10. What is the area of a circle with a diameter of 8 cm?

_____ 11. What is the circumference of a circle with a diameter of 8 cm?

_____ 12. What is the circumference of a circle with a radius of 5 cm?

_____ 13. If the perimeter of a triangle is 40 cm with sides of length
$3n$, $2n + 12$, and $5n - 2$, what is the value of n?

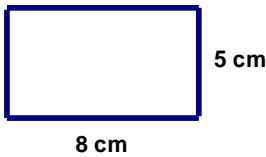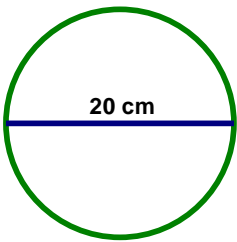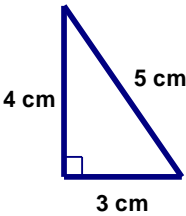Find the perimeter and area of each figure.

Figure 7

5 cm

8 cm

Figure 8

20 cm

Figure 9

4 cm

5 cm

3 cm

Figure 10

5 cm

Figure 11
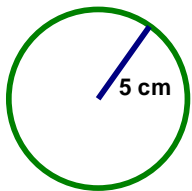
8 cm

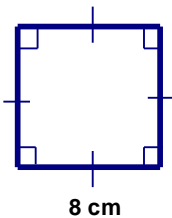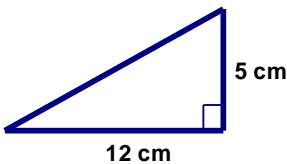**Figure 12**

5 cm

12 cm

14.   Figure 7:   Perimeter = _____   Area = _____

15.   Figure 8:   Perimeter = _____   Area = _____

16.   Figure 9:   Perimeter = _____   Area = _____

17.   Figure 10:   Perimeter = _____   Area = _____

18.   Figure 11:   Perimeter = _____   Area = _____

19.   Figure 12:   Perimeter = _____   Area = _____

_____   20.   What is the perimeter of a triangle with the following vertices:
                        (2, 5)   (7, 5)   (7, 17)

_____   21.   What is the perimeter of a triangle with the following vertices:
                        (-1, -1)   (2, -1)   (2, 3)

_____   22.   What is the perimeter of a triangle with the following vertices:
                        (2, 4)   (6, 9)   (9, 5)   (Round your answer to the nearest tenth.)