

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

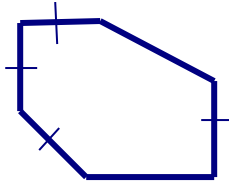


Figure 3

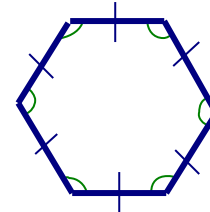


Figure 4

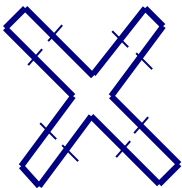


Figure 5

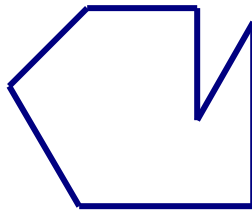
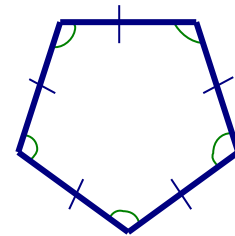


Figure 6



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

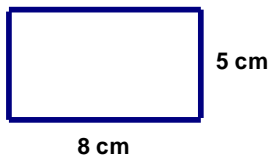


Figure 8

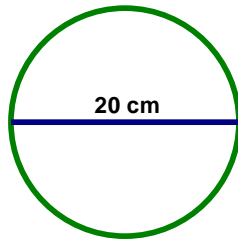


Figure 9

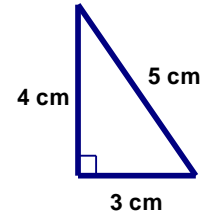


Figure 10

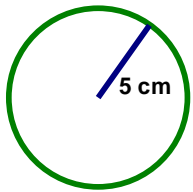


Figure 11

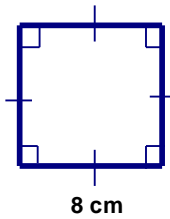
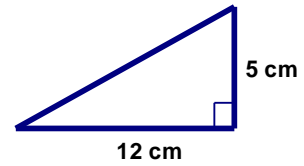


Figure 12



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.)