

BASIC GEOMETRIC CONSTRUCTIONS / REGULAR POLYGONS / CIRCLE / SOLVING PROBLEMS INVOLVING SIDES AND ANGLES OF POLYGONS

Name: _____ Score: _____
Grade Level: _____ Name of School: _____

Direction: Read and understand each item then write the letter of the correct answer.

1. A square table has a perimeter of 360 cm. What is the area of the square?

A. 8, 281 cm^2 B. 8, 100 cm^2 C. 7, 921 cm^2 D. 7, 744 cm^2

2. Rommel wants to build a rectangular garden in his backyard. He needs to know how much fencing he will need to buy if his garden measures 5m by 8m. Which is the perimeter of the garden?

A. 3m B. 13m C. 26m D. 40m

3. The area of the square book is 625 cm^2 . What is the perimeter of the square book?

A. 100 cm B. 90 cm C. 80 cm D. 70 cm

4. The city administrators of San Jose del Monte Bulacan plan to pave the path of the City Hall with the cement tiles. If it measures 30m by 18m, how many cement tiles of size 60cm by 40cm are needed to cover the entire path?

A. 2,500 B. 2, 250 C. 2, 000 D. 1, 750

5. In problem 4, how much money will it cost to buy the needed tiles if each tile costs Php. 150.00?

A. Php.262,500 B. Php. 300,000 C. Php. 337,500 D. Php.375, 500

6. What is the sum of all the interior angles of a decagon?

A. $1,800^{\circ}$ B. $1,440^{\circ}$ C. $1,080^{\circ}$ D. 900°

7. What is the measure of each exterior angle of a regular nonagon?

A. 40° B. 30° C. 20° D. 10°

8. Which is the measure of the largest exterior angle?

A. 70° B. 80° C. 90° D. 100°

9. Each exterior angle of a regular polygon measures 45° . What kind of polygon is it?

A. Heptagon B. Hexagon C. Nonagon D. Octagon

10. The hotel is designed so that the 6 hallways meet at the reception area in the shape of a regular hexagon. Which is the measure of each interior angle of the reception area?

A. 60° B. 80° C. 100° D. 120°