CSS General Abilities Topic 3 Geometry

Sr	Questions	Answers Choice
1	In a Δ ABC, if 2 ∠ A = 3 ∠ B = 6 ∠ C, then ∠ A is equal to	A. 60^o B. 30^o C. 90^o D. 120^o
2	The area of Δ ABC, = 24√3 , side a = 6, and side b = 16. The value of ∠ C is	A. 30^o B. 30^o or 150^o C. 60^o D. 60^o or 120^o
3	Question Image	A. 90^o B. 120^o C. 60^o D. 100^o
4	In quadrilateral WXYZ, the measure of angle Z is 1 more than twice the average of the measures of the three angles. What is the measure of angle Z ?	A. 100 B. 105 C. 120 D. 135 E. 150
5	What is the circumference of a circle whose area is 100π ?	A. 10 B. 20 C. 10π D. 20π
6	A cyclic quadrilateral whose opposite angles are equal, is a :	A. parallelogram but not a rhombus B. rhombus C. rectangle D. square but not a rectangle
7	Question Image	A. 9 B. 18 C. 27 D. 36
8	Question Image	A. 135^o B. 125^o C. 115^o D. 110^o
9	Question Image	A. 1 + √2 B. 2 + √2 C. 4 D. 2 + 2 √2 E. 6
10	Question Image	A. 1/2 B. 1 C. √2 D. 2 E. 2√2
11	Question Image	A. 18 B. 72 C. 18√3 D. 36√3 E. 36√2
12	If the measures of the angles of a triangle are in the ratio of 1:2:3, and if the length of the smallest side of the triangle is 10, what is the length of the longest side ?	A. 10√2 B. 10√3 C. 15 D. 20
13	In Δ ABC, ∠ A = 30^{o} , a = 6, and c = 8. Which of the following must be true ?	A. 0^o < ∠C < 90^o B. 90^o < ∠C < 180^o C. 45^o < ∠C < 135^o D. 0^o < ∠C < 45^o or

		130^o < ∠C < 180^o
14	Question Image	A. 100 B. 110 C. 120 D. 130
15	Question Image	A. 270^o B. 300^o C. 360^o D. 330^o
16	Question Image	A. 60 B. 90 C. 105 D. 120
17	In ΔABC, D and E are the mid-points of AB and AC, respectively. Find the ratio of the areas of Δ ADE and Δ ABC.	A. 1/2 B. 1/4 C. 3/4 D. 1/8
18	Question Image	A. 3AB² = 2AD² B. 2AB² = 3AD² C. 3AB² = 4AD² D. 4AB² = 3AD²
19	Question Image	A. 6.9 cm B. 9.6 cm C. 3.9 cm D. 9.3 cm
20	Question Image	A. 4 cm, 7 cm and 3 cm B. 7 cm, 5 cm and 2 cm C. 5 cm, 4 cm and 3 cm D. 4 cm, 5 cm and 2 cm