CSS General Abilities Topic 3 Geometry

Sr	Questions	Answers Choice
1	Question Image	A. 47 B. 74 C. 90 D. 106
2	The lengths of the sides of triangle are 3, 5, and x. How many possible values of x are there, if x must be an integer ?	A. 1 B. 5 C. 7 D. 8
3	Question Image	A. 35° B. 45° C. 55° D. 65°
4	In Δ ABC, $\angle$ A = 30° , b = 8, and a = $4\sqrt{2}$. Angle C could equal	A. 45° B. 135° C. 60° D. 15°
5	Question Image	A. 18 B. 72 C. $18\sqrt{3}$ D. $36\sqrt{3}$ E. $36\sqrt{2}$
6	Question Image	A. 30° B. 40° C. 50° D. None of these
7	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
8	Question Image	A. 20 B. 30 C. 40 D. 50
9	Question Image	A. (a + b + c) = 180° B. 2a = 2b = c C. a + b = 180° - c D. a + b = c
10	If the angles of a five-sided polygon are in the ratio of 2 : 3 : 3 : 5 : 5, what is the measure of the smallest angle ?	A. 20 B. 40 C. 60 D. 80 E. 90
11	Question Image	A. 80° B. 90° C. 100° D. None of these
12	Question Image	A. 100 B. 110 C. 120 D. 130
13	Given the following data, which can form two triangles ? i. $\angle$C = 30o, c = 8, b = 12 ii. $\angle$B = 45o, a = $12\sqrt{2}$, b = $15\sqrt{2}$ iii. $\angle$C = 60° , b = 12, c = $5\sqrt{3}$	A. only 1 B. only 2 C. only 3 D. only 1 and 2
14	Question Image	A. 98 B. 100 C. 102 D. 104 E. 106
	If A is the area and C is the circumference of a circle, which of the following expressions	A. $2\sqrt{/A}$

15	If A is the area and C is the circumference of a circle, which of the following is an expression for C in terms of A ?	B. 2π/√A C. 2√A/π D. 2√πA
16	Question Image	A. 6 B. 12 C. 6π D. 12π
17	Question Image	A. 90° B. 75° C. 80° D. 110°
18	What is the area of a circle that is inscribed in a square of area ?	A. π/4 B. π/2 C. π D. π√2
19	Question Image	A. ∠ A + 180° B. 180° - ∠ A C. 1/2 ∠BAC D. ∠A + 90°
20	Question Image	A. 15.4 B. 48.6 C. 71.4 D. 93.7