CSS General Abilities Topic 3 Geometry

Sr	Questions	Answers Choice
1	Question Image	A. 75 **B. 90** C. 100 D. 105
2	A 5 × 12 rectangle is inscribed in a circle. What is the radius of the circle ?	**A. 6.5** B. 7 C. 8.5 D. 13
3	Question Image	A. $\angle A + 180^o$ B. $180^o - \angle A$ **C. 1/2 $\angle BAC$** D. $\angle A + 90^o$
4	Question Image	**A. 15.4** B. 48.6 C. 71.4 D. 93.7
5	Question Image	A. 50° B. 90° **C. 100°** D. 120°
6	In Δ ABC, $\angle A = 30^o$, a = 6, and c = 8. Which of the following must be true ?	A. $0^o < \angle C < 90^o$ B. $90^o < \angle C < 180^o$ C. $45^o < \angle C < 135^o$ **D. $0^o < \angle C < 45^o$ or $130^o < \angle C < 180^o$**
7	In ΔABC, the measure of the exterior angles at vertices A and B are 145° and 125°, respectively. Which of the following statement about ΔABC above must be true. i. The triangle is a right triangle. ii. The triangle is an isosceles triangle. iii. The triangle is a scalene triangle.	A. None B. I only C. III only **D. I and III only**
8	A square of area 2 is inscribed in a circle. What is the area of the circle ?	A. π/4 B. π/2 **C. π** D. π√2
9	Question Image	A. (a + b + c) = 180° B. 2a = 2b = c C. a + b = 180° - c **D. a + b = c**
10	What is the area of a circle whose radius is the diagonal of a square whose area is 4 ?	A. 2π B. 2π√2 C. 4π **D. 8π**
11	Question Image	A. 47 B. 74 C. 90 **D. 106**
12	Question Image	**A. 100°** B. 80° C. 60° D. 70°
	The number of triangwe in a ratio of 3 : 2 : 1. The ratio of the longest side of that triangw	**A. √6:2**

13	The angles of triangle are in a ratio of 8 : 3 : 1. The ratio of the longest side of the triangle to the next longest side is	B. 8 : 3 C. √3:1 D. 8 : 5
14	Question Image	A. 18 B. 27 C. 30 D. 36
15	Question Image	A. 2.25 cm B. 4.5 cm C. 1.25 cm D. 2.5 cm
16	Question Image	A. 93° B. 103° C. 83° D. 97°
17	What is the measure of the angle formed by the minute and hour hands of a clock at 1:50?	A. 90° B. 95° C. 105° D. 115°
18	If the length of a rectangle is 4 times its width, and if its area is 144, what is the perimeter ?	A. 6 B. 24 C. 30 D. 60 E. 96
19	Question Image	A. 290° B. 300° C. 280° D. 285°
20	In circle of radius 5 cm, AB and AC are two equal chords such that AB = AC = 6 cm. What is the length of the chord BC ?	A. 9.6 cm B. 11 cm C. 12 cm D. 9 cm